



ADVISORY CIRCULAR 43–16A

AVIATION MAINTENANCE ALERTS



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U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION WASHINGTON, DC 20590

AVIATION MAINTENANCE ALERTS

The Aviation Maintenance Alerts provide a common communication channel through which the aviation community can economically interchange service experience and thereby cooperate in the improvement of aeronautical product durability, reliability, and safety. This publication is prepared from information submitted by those who operate and maintain civil aeronautical products. The contents include items that have been reported as significant, but which have not been evaluated fully by the time the material went to press. As additional facts such as cause and corrective action are identified, the data will be published in subsequent issues of the Alerts. This procedure gives Alerts' readers prompt notice of conditions reported via Malfunction or Defect Reports. Your comments and suggestions for improvement are always welcome. Send to: FAA; ATTN: Designee Standardization Branch (AFS-640); P.O. Box 25082; Oklahoma City, OK 73125-5029.

AIRPLANES

FLAMMABLE FLUID LINES, BEHIND THE INSTRUMENT PANEL ON SMALL, SINGLE-ENGINE AND MULTIENGINE AIRPLANES

This article is being published at the request of the FAA, Aircraft Certification Office, ACE-115W, in Wichita, Kansas. (*This article is printed as it was received from ACE-115W*.)

The FAA has received several Safety Recommendations which are applicable to many small, single-engine and multiengine piston-powered aircraft. These Safety Recommendations were written as a result of accidents and incidents related to leakage of flammable fluid lines behind the instrument panel. One of the reports was applicable to an older model of a current production, multiengine aircraft that resulted in an off-airport fatal accident. Several other reports were received on older models of either out of production or current production models of single-engine aircraft that experienced failure or near failure of flammable fluid lines behind the instrument panel.

Currently 14 CFR part 23 rules require a means to minimize the ignition and resultant hazard of ignition associated with the installation of flammable fluid systems. However, many older models that may, at this time, be in or out of production do not have to comply with the current 14 CFR part 23 rules, applicable to flammable fluid fire protection. All of these earlier certificated aircraft are susceptible to the conditions that have been explained in adverse service reports.

The FAA has recommended that the manufacturers of the suspect small aircraft issue service information concerning this subject. The service information should be in the form of maintenance manual revisions, service bulletins/letters, etc., which provide detailed inspection information applicable to flammable fluid systems as well as flammable fluid lines behind the instrument panels of their respective model aircraft. As an example, Cessna Aircraft Company is currently preparing manual revisions covering this subject and may have some of the material available at the time this advisory is published. However, this expanded information on flammable fluid line fire protection, has been determined to be applicable to the entire fleet of older small aircraft, both single-engine and multiengine. Therefore, the FAA is considering other advisory methods, applicable to flammable fluid lines behind the instrument panel, to make the aviation public aware of the seriousness of this problem. This is similar to the methods used previously to provide information concerning engine controls on older and current production aircraft that may be manufactured to earlier certification rules. The FAA also noted that on older small multiengine aircraft, corrosion and chafing, of these

lines may be prevalent under the floor panels. The FAA considers this an aging aircraft issue and urges maintenance technicians to closely inspect these fluid lines, both oil and fuel, for condition and security.

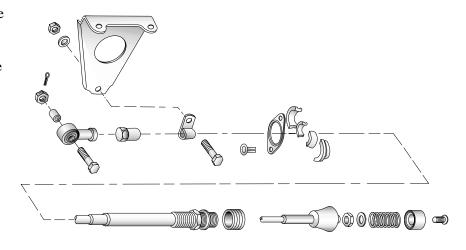
It is recommended that the existing service information available to maintain the small, single-engine and multiengine aircraft equipped with flammable fluid lines behind the instrument panel, be carefully reviewed and that additional, currently applicable, information be prepared and utilized to verify airworthiness of the aircraft configured with these systems. Also, maintenance technicians are encouraged to pay close attention to flammable fluid lines, especially those located inside the aircraft during inspections and maintenance. These lines should be checked for chafing, security, leaking, corrosion, cracking, and general condition. In addition, the life limit of flexible fluid lines should be strictly complied with.

BEECH

Beech; Model E33A; Bonanza; Engine Throttle Interference; ATA 7603

The pilot reported that during flight, the throttle control assembly (P/N 35-944046-5) jammed when it was moved. He was able to gain enough control to land the aircraft safely.

A technician found the throttle control knob button (P/N 35-944035-1) was misaligned causing the throttle interference. The screw (P/N NAS387-832-8P), used to attach the button to the throttle knob, was loose and allowed the button to become misaligned and jam when the throttle was moved. The screw had backed out approximately eight turns. (Refer to the illustration.)



This rather small screw being loose could have resulted in a catastrophic aircraft accident, and technicians and pilots should pay extra attention to the security of all hardware.

Part total time not reported.

Beech; Model F-33A; Bonanza; Defective Wing Flap Drive Cable; ATA 2750

While complying with the recommendations of Safety Communiqué Number 182, a technician found the left wing flap drive cable had a suspect date of manufacturer.

The technician ordered and received a new left wing flap drive cable (P/N 12517Y-63-31). The new cable bore a date of manufacturer of "03-2001." He installed the new cable, and it failed on the first

activation during an operational test. The cable separated at the drive end of the actuator. After removing the cable, he returned it to the manufacturer for analysis.

Part total time-0 hours.

Beech; Model C55; Baron; Wing Spar Damage; ATA 5711

While conducting a scheduled inspection, the technician discovered a crack on the top of the left wing.

The crack was a result of damage to the lower forward wing spar. Excessive looseness and movement of the wing's leading edge evidently caused the spar damage. The looseness was a result of excessive wear on the hinge stock and pins that are used for attachment of the leading edge.

This area deserves close scrutiny at every opportunity.

Part total time not reported.

Beech; Model 76; Duchess; Engine Mount Structural Defects; ATA 5400

While complying with the requirements of a scheduled inspection, a technician discovered defects on the left and right engine mount channels.

The channels (P/N 105-980000-21) were broken completely through just above the nut plate holes. The submitter speculated the "counter-rotating engines" and/or an unreported hard landing might have caused this damage.

Everyone involved in aviation should be conscientious in reporting any defect or possible defect or condition that may lead to a defect to the technicians charged with maintaining the aircraft in a condition for safe operation.

Part total time not reported.

Beech; Model C90; King Air; Fuel Quantity Defect; ATA 2841

After returning from a flight, the pilot reported that the left fuel quantity indicator was "unreliable" and appeared to read low.

A technician removed the fuel quantity indicator (P/N 100-380006-47) and replaced it with a unit overhauled by a certificated repair station. The overhauled indicator was calibrated in accordance with current technical data. After the next flight, a repeat discrepancy was reported. The technician swapped the left and right indicators and discovered the problem was in the indicator. The technician replaced the unit with an overhauled unit. After calibrating the overhauled unit, he approved the aircraft for return to service. After returning from the first flight, the crew reported the same discrepancy.

The aircraft was given a scheduled inspection, and the fuel quantity system was investigated further. After the technician discovered several corroded electrical grounding points, he cleaned and recalibrated the system.

After the scheduled inspection, the fuel quantity discrepancy was again reported following the second flight. Again, it was determined the indicator was defective. The technician discovered that all of the failed fuel quantity indicators were overhauled by the same repair station at approximately the same time

and were sent to them because of the same defect previously reported. The technician contacted his supplier and asked them for another fuel quantity indicator from a different repair station. When the technician received the indicator, it was installed, calibrated, and functioned properly.

This report brings to light several problems and reminds us to be vigilant when troubleshooting discrepancies. Just because a part is received with a "serviceable tag" is not a guarantee that the part is airworthy. However, it does let us know the facility that accomplished the repair. In this case, perhaps a bench test of the newly overhauled indicators would have detected the defect before installation on the aircraft.

Part total time not reported.

Beech; Model 95-B55; Baron; Defective Wing Attachment Hardware; ATA 5740

While preparing for an annual inspection, the technician conducted a review of the aircraft maintenance records and discovered the wing attachment hardware was due for removal and inspection.

The technician and owner decided to replace the wing attachment hardware with new bolts and nuts received from Beech. In accordance with current technical data, the new hardware was sent to a nondestructive inspection (NDI) repair station. However, the manufacturer should have inspected it via NDI prior to shipment.

The repair station conducted a magnetic particle inspection procedure and discovered that two of the nuts had a "rough inside surface," and there were linear crack indications in the threaded area. After the technician discussed this problem with Beech, he returned the nuts for further inspection and evaluation.

The importance of not taking for granted the airworthiness of these critical parts cannot be overstressed.

Part total time-0 hours.

Beech; Model 95-B55; Baron; Induction Airbox Damage; ATA 7160

During an annual inspection, the technician discovered the right engine induction airbox was seriously damaged.

The induction system and airbox (P/N 96-919100-16) displayed severe wear and numerous cracks. The technician speculated metal fatigue and exposure to excessive vibration caused the damage. Approximately 69 hours prior to this finding, the airbox assembly was repaired due to the same type of damage.

Technicians are advised to give the airbox assembly extra attention during scheduled inspections and maintenance in the area. Many different aircraft, using a similar induction system, are also susceptible to this type of damage and deserve extra attention.

Part total time-2,357 hours.

Beech; Model 200; King Air; Wing Flap Defect; ATA 2752

After returning from a flight, the pilot reported the right flap was "bouncing" in the airstream when he extended the right flap.

A technician found the right outboard flap, center shaft of the actuator (P/N 50-521222-4) was cracked over the entire length. This allowed the flaps to "bounce" similar to what might be produced by bad or severely worn flap rollers.

The submitter recommended inspecting the top and bottom of the flap actuator center shaft closely during scheduled inspections.

Part total time-1,819 hours.

Beech; Model 400A; Beechjet; Tire Failure; ATA 3246

The pilot reported that during a landing, the right main gear tire went flat. He was able to control and stop the aircraft on the runway.

During an investigation, a technician discovered that one of the wheel half tie bolts (P/N GYS186-20) had broken and was missing. He speculated the missing bolt caused unseating of the wheel half sealing "O" ring and the loss of air pressure. The wheel half tie bolts were inspected via a magnaflux inspection procedure 14 operating hours prior to this occurrence, and no defects were found at that time.

The submitter recommended replacing all wheel half tie bolts and nuts during each wheel overhaul.

Part total time-1.000 hours.

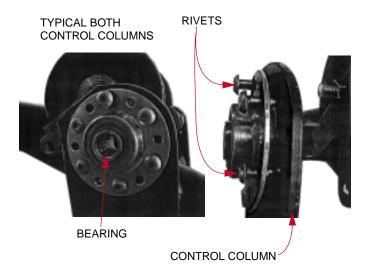
Beech; Model 1900D; Airliner; Flight Control Defect; ATA 2730

After a flight, the pilot reported the elevator control was not responsive.

A technician discovered that excessive movement of the control column was required before the elevator moved. Further inspection revealed the control column assembly (P/N 100-524119-55) lower bearing (P/N MS20218-2) was loose, and the attachment rivets (P/N NAS1738B4) were worn and backed out. Similar defects were found on both control columns. (Refer to the illustration.)

The submitter suggested that technicians give this area extra attention during scheduled inspections.

Part total time-1,233 hours.



CESSNA

Cessna; Model 152; Loss of Engine Power; ATA 7220

While doing touch-and-go landings, the pilot applied carburetor heat and lost engine power. The engine performance did not change when the carburetor heat control was reversed. He made a safe, full-stop landing and turned the aircraft over to a maintenance shop.

A technician removed the carburetor and found the "starter lubrication" decal lodged in the venturi. This severely restricted the airflow to the engine and produced an extremely rich mixture. After removing the decal and conducting a thorough inspection of the carburetor, the operational test produced normal operating parameters.

The submitter recommended removing the starter lubrication decal prior to installation of the starter. He also suggested the starter manufacturer pursue methods to affix the decal in a more permanent manner.

Part total time-43 hours.

Cessna; Model 172N; Skyhawk; Serious Wing Structural Damage; ATA 5710

While conducting a scheduled inspection, the inspector noticed that a large number of rivet heads were broken and missing under the right wing leading edge skin at the forward spar.

The wing was removed and taken to a structural repair shop for evaluation and repair. The wing was disassembled and the technicians found severe corrosion over much of the wing structure including skins, spars, ribs, and stringers. Since four nose ribs were corroded completely through, they were replaced. He also replaced all the skins. After removing the corrosion on the remaining components, he cleaned and treated them for corrosion, and found the components to be serviceable.

The aircraft owner stated, "These components were not that bad a year ago." The submitter stated that aircraft based in corrosion-prone area should receive rigorous inspections. He also suggested conducting preventive maintenance and regular washing of aircraft flown in corrosion-prone areas.

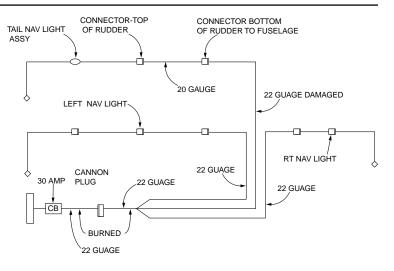
Part total time-7,178 hours.

Cessna; Model 172R; Skyhawk; Defective Electrical Wiring; ATA 2400

After a flight, the pilot reported he lost electrical power to approximately one-half of the avionics buss and experienced smoke and a foul odor in the cockpit.

A technician inspected the aircraft and found a 22-gauge wire (2H1002), was burned from the navigation light circuit breaker switch to pin 11 in connector JC001 and from there to pin 1 in connector JV001. The red wire (6-inch pigtail) from the tail navigation light housing, running to the connector (JV001), was shorted to a nut plate used to attach the rudder tip. However, other than a small "pin-sized burn mark," the wire did not display evidence of overheating.

Several other wires (2H1005, 2H1009, and 2H1008) were severely damaged. All three wires from the navigation lights feed into a 2-foot length of 22-gauge wire that is connected to the 5-amp circuit breaker switch. (Refer to the illustration.) Most of the wire to the tail navigation light was damaged; however, the forward portion of the wire was burned down to the bare conductor. This part of the wire melted into adjacent wires in the bundle causing an electrical overload that opened the 30-amp navigation light system circuit breaker.



The submitter offered evidence indicating the electrical system, for the navigation light circuit, required between 18-gauge wire and 20-gauge wire instead of 22-gauge wire. It is believed the inadequate wire size contributed to, or caused, this failure. It was recommended that the manufacturer consider a redesign of the navigation light circuit to alleviate recurrence of this problem.

Part total time not reported.

Cessna; Model 172S; Skyhawk; Defective Landing Gear; ATA 3211

The pilot reported a "popping" noise coming from the left brake when the brakes were applied. He taxied back to the parking ramp and summoned maintenance personnel.

A technician inspected the landing gear system and found the left inboard main gear attachment fitting hardware was loose. After removing the gear, he discovered the bolts and the holes in the gear were severely worn.

The submitter did not offer a cause for this defect; however, it is possible the gear attachment hardware was not properly torqued during the last installation. This aircraft is used in a training environment. The landing gear leg and attachment fitting were damaged beyond limits and required replacement. He returned the old parts to Cessna for evaluation.

Part total time-1.345 hours.

Cessna; Model 177B; Cardinal; Flight Control Interference; ATA 2701

The aircraft owner/pilot reported that during an attempted takeoff, he could not attain full aft movement of the flight control yoke. He aborted the takeoff and was very close to the end of the runway when he stopped the aircraft.

The technician discovered that the right side of the panel mount tray for the transponder (Narco 150) had dropped approximately .25 inch and was restricting the aft movement of the control yoke. This restriction prevented rotation of the aircraft for takeoff. He added an additional support to the back of the transponder tray to provide proper support and security.

The submitter speculated the previous transponder installer failed to recognize the possibility of the tray slipping down and interfering with elevator travel. He suggested that maintenance personnel be aware of this condition and inspect the transponder tray installation for clearance during scheduled inspections.

Aircraft total time-3,397 hours.

Cessna; Model R182; Skylane; Engine Starter Defect; ATA 8010

When the pilot attempted to start the engine prior to flight, the starter failed.

A technician inspected the aircraft shortly after the starter failed and found the starter was still extremely hot. He performed an electrical test and discovered the starter had failed internally. After disassembly, he discovered the starter contactor (P/N S-1577A1) had failed in the closed position and caused the starter to overheat and fail. The contactor points were welded closed.

The submitter stated this was the second similar failure he has seen on relatively new like aircraft.

Part total time-139 hours.

Cessna; Model U-206G; Skywagon; Communication Interference; ATA 2420

After returning from a flight, the pilot reported excessive noise in the headset.

A technician discovered the headset noise occurred when the alternator (P/N 9910592-1) was "online." There was no noise when the alternator was "offline." When the alternator was "online," the "whiskey" compass deviation was approximately 20 degrees. He inspected and tested the electrical system wiring, grounds, bonding, and shielding without finding the cause of this defect.

The technician installed three alternators attempting to solve the problem without success. After he installed an alternate alternator (P/N E3FF10300AA), the radio interference and the compass deviation were eliminated.

Part total time-187 hours.

Cessna; Model 402B; Businessliner; Split Flap Condition; ATA 2750

The pilot stated that during a short final approach, he experienced a "split flap" condition. He was able to land the aircraft safely.

During a maintenance inspection, a technician discovered the left wing flap extension cable (P/N 50-00008-3CR) was broken. When the cable broke, it allowed the left flap to retract while the right flap remained down.

The submitter speculated the cable failed because the cable strands were "work hardened."

Part total time-12,101 hours.

Cessna; Model 414A; Chancellor; Wheel Brake Defect; ATA 3242

While taxiing for takeoff, the pilot discovered the right wheel brake was not effective. He taxied back to the parking ramp and summoned maintenance personnel.

A technician discovered the line (P/N 5100106-159) running to the right brake was leaking. The brake line is routed under the heater duct and had chafed against the heater duct until the line wall thickness was penetrated.

The location of this defect makes proper inspection especially difficult. However, the submitter suggested that technicians expend the extra effort required to detect chafing conditions during scheduled inspections.

Part total time-4,094 hours.

Cessna; Model 550; Citation; Smoke in the Cockpit; ATA 3350

As the flightcrew taxied to the runway for takeoff, they detected a burning odor followed by visible smoke. The smoke was coming from the cockpit headliner area. The flightcrew notified ground control, shut down the engine, and evacuated the aircraft.

Maintenance personnel towed the aircraft to a hangar. A technician determined the smoke was caused by the emergency lighting battery pack (P/N 24621-3). He speculated a diode failure allowed the battery pack to overheat.

Part total time-5,675 hours.

CIRRUS

Cirrus; Model SR-22; Fuel System Defect; ATA 2820

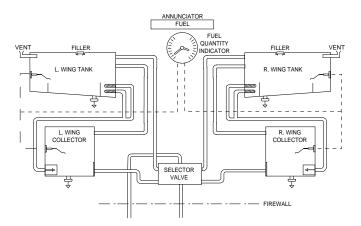
During a flight, the pilot noticed that the right fuel quantity indicator went to "zero" when he selected the right fuel tank.

While investigating this report, a technician found that the fuel quantity transmitter, installed in the right collector tank, was operating correctly. Further investigation revealed that the right collector tank fuel inlet line, from the right main fuel tank check valve, was "glued" closed. He suspected the foreign material (glue) was deposited on the check valve when the aircraft was manufactured.

The investigation of the check valve problem led the technician to discover that even with a fully functioning check valve, the right or left main fuel tanks will not supply adequate fuel to keep the collector tanks full. This occurs when the selected main fuel tank quantity is low (one-half tank or less). This problem was not manifest until the fuel level in the main tank was lower that one-half because fuel filled

the collector tank through the upper vents connecting the collector tank to the main tank when the fuel level in the main tank was over one-half. (Refer to the illustration.)

The manufacturer's technical data indicates the front and aft fuel supply lines from each main tank connect to a single "tee" installed in each collector tank. The submitter believes that changing to two supply lines feeding each collector tank may help. This particular aircraft was originally certificated with a Textron Lycoming, Model IO-360 engine as a Model SR-20 and is now equipped with a Textron Lycoming, Model IO-550 engine which demands a greater fuel supply.



The submitter is knowledgeable of other like aircraft that have had similar discrepancies

and reminds us that this creates the very hazardous possibility of engine fuel starvation, which usually occurs when it is most needed.

Part total time-31 hours.

GLOBE SWIFT

Globe Swift; Model GC-1B; Landing Gear Collapse; ATA 3230

During an afterlanding rollout, the right main landing gear collapsed. The pilot stated the landing gear indicated "down and locked" prior to landing.

A technician disassembled the right main gear retraction unit and discovered that the "woodruff" key (P/N AN280-H-205) was sheared. This allowed the pinion gear to rotate approximately one-eighth inch past the position that allows the gear to lock in the "down" position.

The submitter could not determine if the "woodruff" key sheared before or after the gear collapse. He speculated the "woodruff" key sheared when the hydraulic powerpack primary circuit opened and/or the microswitch stuck and gave a false indication. There was no damage to the downlock assembly, which indicates there was insufficient hydraulic pressure available.

Part total time since overhaul-187 hours.

PIPER

Piper; Model PA 23-250; Aztec; Landing Gear Failure; ATA 3230

The pilot reported that during a landing rollout, the right main landing gear collapsed.

During an investigation, a technician discovered that the right main gear center drag link bolt (P/N 402-427) was missing. After considerable searching, he found the broken bolt. It appeared the bolt failed under shear forces, and it displayed a considerable amount of wear.

The submitter speculated the landing gear drag link bolt was installed as original equipment when the aircraft was manufactured.

Part total time-9,000+ hours.

Piper; Model PA 28-161; Warrior; Engine Starting System Defect; ATA 8000

The pilot reported that during a preflight inspection, the engine starter continued to turn the engine with the key off and removed.

A technician discovered the starter was supplied electrical power any time the battery was connected. While investigating, he discovered the wrong starter solenoid (P/N 71-109225-2) was installed. He researched the aircraft maintenance records and discovered the starter solenoid had never been replaced or repaired since the aircraft was new. He checked several other like aircraft and found they all had the correct starter solenoid installed.

After removing the starter solenoid, the technician found the electrical contacts were "welded" together.

Part total time-2,109 hours.

Piper; Model PA 28-161; Cadet; Flight Control Defects; ATA 2740

During a scheduled inspection, the inspector discovered that a stabilator control cable was defective.

The right forward stabilator control cable had approximately half of the strands broken. The damage was located at the bank of pulleys adjacent to the rear spar. Many of the pulleys at this location do not have bearings, and there is not much cable deflection to apply pressure on the pulleys to turn them; therefore, the pulleys become stuck occasionally.

The submitter recommended cleaning all the flight control cables with a soft cotton rag and checking the cables for broken strands.

Part total time-7,000 hours.

Piper; Model PA 28-180; Cherokee; Engine Oil Leakage; ATA 7930

During a postflight inspection, a technician discovered an oil film on the engine firewall disk/retainer (P/N 63915-003) adjacent to a grommet used to accommodate the oil pressure indicator line.

This was the third flight since complying with the requirements of Airworthiness Directive (AD) 96-09-10, which deals with the engine oil pump. Engine oil was also found in the firewall blanket inside the cockpit. The technician disassembled the disk and retainers from the firewall and applied

approximately 15-PSI of pressure to the aluminum oil line (P/N 63201-000). When the pressure was applied, the line separated due to extremely severe corrosion in the area where it passed through the firewall disk/retainer assembly.

Some PA 28-series aircraft use a single line to the engine oil pressure indicator in the cockpit while others use a two-piece line with a bulkhead fitting (P/N AN832-4) installed in the firewall. The submitter recommended subjecting all PA 28-series aircraft using the single line to a one-time inspection. The line should be inspected in the area where it passes through the firewall for evidence of corrosion, leakage, or other defects.

Separation of the oil pressure indication line in flight could cause complete loss of engine oil and catastrophic engine failure.

Aircraft total time-1,931 hours.

Piper; Model PA 28R-201; Arrow; Landing Gear Position Indicating Problem; ATA 3260

When the pilot extended the landing gear for landing, the right main gear did not indicate down and locked. He made a safe landing after a ground observer informed him the gear appeared to be locked in the down position.

When the aircraft was parked on the ramp, a technician investigated the problem finding that the right main gear "down limit switch" was not properly rigged. He adjusted and rigged the switch (P/N 36742-014) and performed a retraction test. When he checked the emergency extension system, the switch arm hinge pin became dislodged and allowed the switch to de-activate. After he replaced the switch, the landing gear functioned properly. He inspected the old switch assembly and discovered the hinge pinholes for the arm were enlarged and allowed the hinge pin to migrate out of the switch arm.

Inspection personnel are urged to ensure that all of the switch arm hinge pins are installed securely during scheduled inspections.

Part total time-471 hours.

Piper; Model PA 31-350; Chieftain; Nose Landing Gear Failure; ATA 3230

The pilot reported he could not attain a safe down-and-locked indication for the nose landing gear prior to landing. The nose gear collapsed during the landing.

While moving the aircraft off of runway, the technician discovered the nose gear's upper right drag brace (P/N 40336-00) was broken. He speculated the broken drag brace prevented the extension of the nose gear. The cause of the drag brace failure was not given, although metal fatigue, corrosion, and/or a pre-existing crack may have been contributing factors.

Part total time not reported.

Piper; Model PA 31T-620; Chevenne II; Fuel Leakage; ATA 2810

After filling the aircraft fuel tanks, the technician noticed fuel leaking from the right wing.

The fuel was coming from the right nacelle's fuel-quantity indicator probe plate. The technician removed the plate and found that the "O" ring seal, used to seal the probe access plate, was extruded from the groove in two places.

Many times, the aircraft fuel tanks are not completely filled; therefore, leaks and other defects at the top of the tanks may go undetected for long periods of time.

Part total time not reported.

Piper; Model PA 32RT-300; Lance; Engine Exhaust System Muffler Failure; ATA 7820

While conducting a scheduled inspection, the inspector discovered that the center muffler housing was split open at the upper weld seam.

This defect allowed hot exhaust gases to damage the upper aluminum muffler shroud and the engine induction air cover. The submitter suggested that technicians conduct a close inspection, both visual and pressure test, of all muffler and exhaust system components. Defects may be more prevalent at weld seams.

Part total time-2,049 hours.

Piper; Model PA 32-301T; Turbo Saratoga; Flight Control Defect; ATA 2720

While conducting an annual inspection, the inspector discovered that a rudder control cable turnbuckle was broken.

The aft left rudder cable assembly (P/N 62701-008) turnbuckle was broken at the threaded portion of the turnbuckle. The safety wire was the only thing keeping the cable from separating and causing complete loss of rudder control. This defect could have resulted in loss of aircraft control and a catastrophic accident. The technician did not offer a cause for this defect, but metal fatigue or a defect inside the metal may have been contributing factors.

The submitter recommended that technicians be cognizant and vigilant for this type of defect during scheduled inspections. This report was the subject of three National Transportation Safety Board (NTSB) Safety Recommendations (A-01-6, -7, and -8).

Part total time-2,720 hours.

Piper; Model PA 46-500; Mirage; Smoke in the Cockpit; ATA 2121

After a flight, the pilot stated he experienced smoke in the cockpit. The "cabin fan" circuit breaker opened, and the smoke dissipated.

While investigating, a technician discovered that the electrical load buss relay (P/N 688-498) was severely burned and heat damaged. The relay is located below the right circuit breaker panel. Since this was a new aircraft, it was returned to the manufacturer for repair.

Part total time-17 hours.

HELICOPTERS

BELL

Bell; Model 206 BIII; Long Ranger; Defective Starter/Generator Seal; ATA 2435

A technician discovered an oil leak in a gearbox and changed the starter/generator pad seal (P/N 23063371) to correct the problem. He followed the proper maintenance manual procedures for replacing the seal. However, after 2 hours of operation, the seal was leaking again.

Both seals were torn at the sealing lip. The submitter stated both seals were the "new-style" seals. The "new-style" seals are marked "63005S0CN23063371, Rev B, Mfr-80201." The "new-style" seals replace the "old-style" seals (P/N 6854424). The submitter believes the "new-style" seals are not compatible with turbine engine oil (EXXON 2380).

The submitter has experienced three similar seal failures in a relatively short period of time.

Part total time-2 hours.

EUROCOPTER

Eurocopter; Model AS-350BA; Ecureuil; Starter/Generator Failure; ATA 2421

During a flight, the pilot noticed the engine surging. A drop in RPM indicated power loss. He made a safe, precautionary landing.

A ground operational test of the engine verified a strong, high-frequency vibration coming from the starter/generator (P/N 23032-022) and the fuel control, as well as engine surging. The technician isolated the problem to the starter/generator. After removing and replacing the starter/generator, he conducted an operational test on the new starter/generator which proved the problem was solved. He disassembled the defective starter/generator and discovered the internal lubrication (grease) was dried up, and the bearing was severely heat damaged.

The submitter stated the manufacturer's technical data should incorporate a "calendar time" for the replacement of these bearings.

Part total time since overhaul-593 hours.

Eurocopter; Model B0-105lS; Lift Ship; Vertical Stabilizer Structural Defect; ATA 5530

During a preflight inspection, the technician found a crack in the vertical stabilizer fin.

It appeared the crack started at the forward top attachment point and ran aft approximately 8 inches. This defect was located on the inside surface at the point where the vertical stabilizer fin (P/N 105-30591) attaches to the horizontal stabilizer.

The submitter recommended extra vigilance be given for cracks in this area during scheduled inspections and maintenance.

Part total time-4,209 hours.

Eurocopter; Model EC-120B; Hydraulic System Anomaly; ATA 2900

A technician was performing a normal engine runup procedure and system test, which required turning off the hydraulic system. When the hydraulic system was turned off, the "HYD" warning light illuminated, but hydraulic power was still supplied to the controls.

The technician changed all three servo "electrovalves" (P/Ns EVP310-566, -596, and -606), and the problem was cured. However, after approximately 5 hours of operating time, the same anomaly occurred again. To solve this problem, he removed and replaced the hydraulic system powerpack.

Part total time-395 hours.

Eurocopter; Model SA-365N1; Dauphin; Vertical Fin Separation; ATA 5530

The pilot stated that during a flight, the right vertical fin separated from the aircraft.

The technician discovered the vertical fin separation was caused by failure of the attachment studs (P/N 356a13-3017-23). It appeared that one of the studs failed due to metal fatigue which led to the failure of the remaining studs. The metal fatigue was evidenced by what appeared to be pre-existing stress cracks in the one stud.

The submitter recommended the manufacturer add an inspection item to the 100-hour airframe requirements to require removal and inspection of the vertical fin attachment studs. Also, he suggested the manufacturer establish a life limit for the studs and a maintenance procedure for using a "tap" to clean out the threads for the studs. Some of the studs have a grip length and some do not.

Part total time not reported.

POWERPLANTS AND PROPELLERS

HARTZELL

Hartzell; Model HC-C2YK-2CUF; Blade Shank Crack; ATA 6111

This propeller was being used on a Britten-Norman, Model BN-2, Islander aircraft.

The pilot reported that during takeoff, the left engine propeller would not develop full power. He returned to the departure field for landing and, prior to touchdown, noticed a vibration. Just after touchdown, the vibration severity increased significantly, and he shut down the engine.

A technician inspected the propeller and found that it was over 1 inch out of track. He removed the propeller and sent it to a certified repair station for tear down and inspection.

The repair station technician disassembled the propeller and a visual inspection revealed a large crack that traveled approximately 270 degrees around the number 2 blade shank. Also, the inspection revealed the number 2 blade arm was cracked.

The submitter did not offer a cause for this defect.

Part total time since overhaul-835 hours.

TEXTRONLYCOMING

Textron Lycoming; Model TIO-540; Oil Bypass Valve Failure; ATA 7922

The article contains information from a report on a Piper Model PA 31-350 aircraft.

The owner brought the aircraft to a maintenance facility and asked to have the cause of high engine oil temperature investigated.

A technician discovered the "Theromostatic" oil bypass valve (P/N 53E19600) was defective. The nut was missing from the valve and was found in the oil sump. Some time ago there was a rash of similar reports, and changes were made to correct this problem. The FAA Service Difficulty Reporting (SDR) program data base contains 59 entries for the part number previously mentioned. Textron Lycoming issued several service information publications and revisions dealing with this subject.

In this case, it is possible that the oil bypass was manufactured prior to the changes and was not subjected to the service information issued by the manufacturer.

Part total time-1,087 hours.

Textron Lycoming; Model TIO-540; Engine Failure; ATA 8530

This engine was being used on the right wing of a Piper Model PA 31P-350 aircraft.

After a flight, the pilot reported that during cruise flight (16,500 feet altitude, 32 inches Hg, and 2,200 RPM) he noticed a "shudder" through the airframe. At the same time, the manifold pressure dropped approximately 1 inch Hg. The pilot advanced the throttle with no change in manifold pressure. After approximately 1 minute, he heard a loud bang. He secured the engine and made a safe, single-engine landing.

A technician opened the cowling and discovered the number 5-cylinder assembly had separated from the engine case. The piston and connecting rod were still attached and in the cylinder. The rod cap was broken and found in the crankcase. The submitter gave no further explanation concerning the cause of this failure. Given the relatively short time since overhaul, it is possible the rod bearing clearance was not in accordance with the manufacturer's recommendations.

Part time since overhaul-345 hours.

AMATEUR, EXPERIMENTAL, AND SPORT AIRCRAFT

AVIAT

Aviat; Model A-1B; Husky; Landing Gear Failure; ATA 3211

During a landing, the left main landing gear separated from the aircraft.

A technician discovered the gear strut (P/N 35017-502) broke adjacent to the front attachment fitting in a weldment. The weld penetration at the separation point was approximately one-third through the parent material, which the manufacturer considered adequate. The aircraft owner, of course, had a much different opinion.

The dispute was settled by sending the broken landing gear assembly to an independent metallurgical laboratory for analysis. The laboratory report stated the weld penetration could have been better; however, it did provide adequate strength for the assembly. The laboratory analysis determined the landing gear failed due to a "hard landing."

Part total time not reported.

LANCAIR

Lancair; Model ES; Propeller Drive Failure; ATA 6100

The pilot stated that while flying at 5,000 feet, he noticed smoke coming from the front part of the cowling. When he reduced engine power, the smoke stopped. During the landing approach, he increased the power to make the runway; however, the propeller did not respond. The flight ended with an accident.

An inspection of the propeller drive system revealed the belt was "mostly gone," and the lower front belt pulley bearing was seized and severely overheated. The submitter believes the bearing seized which caused the belt to overheat and wear away.

It would be wise to inspect these bearings for freedom of movement and wear at every opportunity.

Part total time-361 hours.

ACCESSORIES

EMERGENCY LOCATOR TRANSMITTERS (ELT)

The following article was taken from a report concerning an ACK Technologies, Inc., Model E-01, ELT installed in an Aeronca, Model 7EC aircraft. (*This article is printed as it was received.*)

While conducting an annual inspection, a technician discovered that the negative electrical lead running from the ELT battery compartment to the transmitter was broken.

Evidence indicated that the electrical lead was consumed by severe corrosion causing complete separation. Both the lower and upper ELT battery contacts were severely corroded and the plating had fallen off of the contacts. One of the eight batteries was completely dead; however, there were no corrosion products on the battery and it had not leaked.

According to the manufacturer's technical data, the front transmitter cover screws are "not to be removed" by field personnel. When received from the manufacturer, the cover screws are sealed with a "witness" mark. In this case, the technician did open the transmitter where he found the defects mentioned.

The submitter recommended the manufacturer revise their technical data to allow periodic inspection for defects inside the transmitter case.

Part total time not reported.

AIR NOTES

ALL AIRWORTHINESS DIRECTIVES ARE ON THE WEB

The FAA, Aircraft Certification and Flight Standards Services are pleased to announce that all Airworthiness Directives (ADs) are now available on the Internet in the Regulatory and Guidance Library (RGL).

The Internet address is: http://www.airweb.faa.gov/rgl

In addition, you can find the ADs from the FAA homepage by clicking on "FAA Organizations" and then "Aircraft Certification Service."

This improvement should be of great benefit to aircraft owners, operators, technicians, pilots, and other interested persons.

SUBSCRIPTIONS

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In the past, we furnished the GPO subscription form in this publication. The older issues which contain the subscription form, may not have current pricing information. Since GPO controls price increases, contact GPO for current subscription information.

ELECTRONIC VERSION OF MALFUNCTION OR DEFECT REPORT

One of the recent improvements to the AFS-600 Internet web site is the inclusion of FAA Form 8010-4, Malfunction or Defect Report. This web site is still under construction and further changes will be made; however, the site is now active, usable, and contains a great deal of information.

Various electronic versions of this form have been used in the past; however, this new electronic version is more user friendly and replaces all other versions. You can complete the form online and submit the

information electronically. The form is used for all aircraft except certificated air carriers who are provided a different electronic form. The Internet address is:

http://av-info.faa.gov/isdr/

When the page opens, select "M or D Submission Form" and, when complete, use the "Add Service Difficulty Report" button at the top left to send the form. Many of you have inquired about this service. It is now available, and we encourage everyone to use this format when submitting aviation, service-related information.

SERVICE DIFFICULTY REPORTING PROGRAM

The objective of the Service Difficulty Reporting (SDR) Program is to achieve prompt and appropriate correction of conditions adversely affecting continued airworthiness of aeronautical products fleet wide. The SDR program is an exchange of information and a method of communication between the FAA and the aviation community concerning inservice problems.

A report is filed whenever a system, component, or part of an aircraft, powerplant, propeller, or appliance fails to function in a normal or usual manner. In addition, if a system, component, or part of an aircraft, powerplant, propeller, or appliance has a flaw or imperfection which impairs, or which may impair its future function, it is considered defective and should be reported under the program.

These reports are known by a variety of names: Service Difficulty Reports (SDR), Malfunction and Defect Reports (M and D) and Maintenance Difficulty Reports (MDR).

The consolidation, collation and analysis of the data, and the rapid dissemination of trends, problems and alert information to the appropriate segments of the aviation community and FAA effectively and economically provides a method to ensure future aviation safety.

The FAA analyzes SDR data for safety implications and reviews the data to identify possible trends that may not be apparent regionally or to individual operators. As a result of this review, the FAA may disseminate safety information to a particular section of the aviation community. The FAA also may adopt new regulations or issue airworthiness directives (AD's) to address a specific problem.

The primary source of SDR's are certificate holders operating under Parts 121, 125, 135, 145 of the Federal Aviation Regulations, and the general aviation community which voluntarily submit records. FAA Aviation Safety Inspectors may also report service difficulty information when they conduct routine aircraft and maintenance surveillance as well as accident and incident investigations.

The SDR database contains records dating back to 1974. Reports may be submitted on the Internet through an active data entry form or on hard copy. The electronic data entry form is in the AFS-600 Aviation Information web site under the heading SDR Main Menu. The URL is: http://av-info.faa.gov

A public search/query tool is also available on this same web site. This tool has provisions for printing reports or downloading data.

At the current time we are receiving approximately 45,000 records per year.

Point of contact is:

Tom Marcotte Service Difficulty Program Manager Aviation Data Systems Branch, AFS-620 P.O. Box 25082 Oklahoma City, OK 73125

Telephone: (405) 954-6500

9-AMC-SDR-ProgMgr@mmacmail.jccbi.gov

ADDRESS CHANGES

In the past, the Designee Standardization Branch (AFS-640) maintained the mailing list for this publication. Now, the Government Printing Office (GPO) sells this publication and maintains the mailing list; therefore, please send your address change to: U.S. Government Printing Office, **ATTN: SSOM, ALERT-2G**, 710 N. Capital Street N. W., Washington, DC 20402

You may also send your address change to GPO via FAX at: (202) 512-2168. If you FAX your address change, please address it to the attention of: **SSOM, ALERT-2G**. Whether you mail or FAX your address change, please include a copy of your old address label, and write your new address clearly.

IF YOU WANT TO CONTACT US

We welcome your comments, suggestions, and questions. You may use any of the following means of communication to submit reports concerning aviation-related occurrences.

Editor: Phil Lomax (405) 954-6487

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You can access current and back issues of this publication from the internet at: http://afs600.faa.gov

When the page opens, select "AFS-640" and then "Alerts" from the drop-down menu. The monthly issues of the Alerts are available back to July 1996, with the most recent edition appearing first.

AVIATION SERVICE DIFFICULTY REPORTS

The following are abbreviated reports submitted between September 19, 2001, and October 24, 2001, which have been entered into the FAA Service Difficulty Reporting (SDR) System data base. This is not an all inclusive listing of Service Difficulty Reports. For more information, contact the FAA, Regulatory Support Division, Aviation Data Systems Branch, AFS-620, located in Oklahoma City, Oklahoma. The mailing address is:

FAA

ON ALL

Aviation Data Systems Branch, AFS-620 PO Box 25082 Oklahoma City, OK 73125

These reports contain raw data that has not been edited. If you require further detail please contact AFS-620 at the address above.

FEDERAL AVIATION ADMINISTRATION

Service Difficulty Report Data

Sorted by Aircraft Make and Model then Engine Make and Model. This Report Derives from Unverified Information Submitted By the Aviation Community without FAA review for Accuracy.

ACFTMAKE	ENG MAKE	COMPMAKE	PARTNAME	PART CONDITION	DIFF-DATE	TTIME
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				R STATOR WAS FOUND SEPARA		
MAINTENANCE	DISASSEMBLY. N	MAJOR ENGINE COMP	ONENT DOWNSTREAM	M DAMAGE OCCURED AS SECO	NDARY DAMAGE. EN	GINE
MANUFACTURI	ER NOTIFIED OF T	HIS UNIQUE FINDING	S.			
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			NATION. THERE WILL	BE AN ENGINE CONDITION RE	PORT GENERATED TO	DETAIL THE
	ANALYTICAL IN	SPECTION.				
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AMTR LYC MCAULY GASKET LEAKING 02/12/2001 IO360A1B6 MS914401 GOVERNOR 2001FA0000374 RV8 GASKET PN MS914401 THAT IS SUPLIED WITH THE NEW GOVERNOR DOES NOT COVER THE FULL FACE MATING SURFACE OF THE GOVERNOR EXPOSING APPROX. .0625 INCH OF THE LOWER SCREW HOLE. THE LOWER SCREW HOLE INTERSECTS AN OIL PRESSURE CAVITY ON THE ENGINEMATING SERVICE. THE SHORT GASKET LEAKS OIL FROM LOW RPM. DURING AN INITIAL FLIGHT OVER 4 QUARTS OF OIL LEAKED IN LESSTHAN 15 MINUTES OF FLIGHT. BAG GARRTT **ENGINE** DAMAGED JETSTM3101 TPE33110UG TPE33110UG514 NACELLE CA010822013 (CAN) ON LANDING IN FORT MCMURRAY ON THE MORNING OF 30 JULY, 01 AN UNCOMMANDED ENGINE SHUTDOWN OCCURRED. THE PILOT REPORTED THAT THE ENGINE SHUT DOWN WHEN THE WHEEL TOUCHED THE GROUND, OR SHORTLY THEREAFTER. HE PULLED THE STOP FEATHER LEVER FOR THAT ENGINE AND CONTINUED THE LANDING. ON INVESTIGATION OF THE ENGINE, WE COULD NOT FIND ANYTHING WRONG EXTERNALLY, BUT THE ENGINE WOULD NOT START. WE REMOVED THE ENGINE FROM THE AIRCRAFT AND FOUND EVIDENCE THAT INTERNAL DAMAGE HAD OCCURRED. THE THIRD STAGE APPEARS TO HAVE BEEN RUBBING. BAG GARRTT TERMINAL. MISSING 08/08/2001 JETSTM3212 TPE33112UHR 36925 GOUND CA010905015 (CAN) WHILE PILOT WERE DOING THROTTLE MOVEMENT CHECKS, THEY NOTICED THAT HYDRAULIC PRESSURE GAUGE NEEDLE WERE MOVING WITH THE THROTTLE. UPON TROUBLESHOOTING, FOUND THE LT MAIN BATTERY GROUND TERMINAL WAS MISSING & THE ATTACHMENT POINT (EP1) WAS DETERIORATED. TERMINAL END AND GROUND LUG REPLACED. OPERATIONAL CHECK CARRIED OUT. FOUND SERVICEABLE. JETSTREAM SB 24-JA851056 AND 24-JA860646 ADDRESSED THESE PROBLEMS. THIS SB IS OPTIONAL. BBAVIA CONT SPAR CRACKED 07/09/2001 7CCM C90* WING 2001FA0000387 DURING INSPECTION TO COMPLY WITH AD, CRACKS WERE FOUND INBOARD AND LEFT FRONT SPAR, INBOARD END RIGHT REAR SPAR. .001 FEELER GAGE COULD BE INSERTED .1250 OR MORE INTO CRACKS. CRACKED 06/25/2001 AMTR CA010810013 0200WING (CAN) BOTH WINGS WERE STRIPPED OF FABRIC & L/E MATERIAL REMVD DURING INSP. BOTH WING TIPS WERE REMVD ALONG WITH FUEL TANKS & AILERON BELLCRANKS. SPARS WERE BLOWN WITH COMPRESSED AIR THEN WASHED DOWN WITH MILD SOAP & WARM WATER. THE INSP THEN PROCEEDED USING HIGH INTENSITY LAMP & LARGE MAGNIFYING GLASS. AFTER REMOVING VARNISH IN LIFT STRUT ATTACHMENT POINT, I COULD IDENTIFY VERY SMALL CRACK IN GLUE JOINT ON REAR FACE OF RIGHT REAR WING SPAR. USING LIGHT & MAGNIFYING GLASS, I DETECTED ON UPPER EDGE OF RIGHT REAR SPAR, TOTAL OF 5 COMPRESSION TYPE CRACKS WHICH UNDER NORMAL LIGHTING CONDITIONS COULD NOT BE SEEN. 2 ACTUAL SPLITS WERE REVEALED STARTING AT REINFORCING PLYWOOD PLATE. **BBAVIA** STRUCTURE CRACKED 07/25/2001 8GCBC O360C2E 71493 FUEL CELL CA010813021 (CAN) - FUEL TANK CRACKING. - POSSIBLY DUE TO TOO LIGHT GUAGE OF MATERIAL & NO INTERNAL BAFFLES INTANK. CRACKS USUALLY OCCUR AT END OF STIFFENER INDENTS, - WE AVERAGE 2-3 FUEL TANK FAILURE DUE TO CRACKING PER FLYING SEASON. SHUTOFF VALVE **BBAVIA FAILED** 08/01/2001 O360C2E FUEL SYSTEM CA010813022 8GCBC 110660 (CAN) - THREADED COLLAR THAT SECURES VALVE SHAFT IN BODY CAME LOOSE AND DETACHED ITSELF FROM SHUTOFF BALL INSIDE VALVE.FOR SOME REASON THE VALVE WAS OR WENT INTO THE CLOSED POSITION & STARVED THE ENGINE FOR FUEL DURING TAXIOUT FOR DEPARTURE. - THERE IS NOTHING PROVIDED TO SECURE THE COLLAR SO THAT IT WILL NOT LOOSEN. REECH PW A DOOR FRAME CRACKED 06/30/2001 21552 100BEECH CA010813009 PT6A28 50430043867 **FUSELAGE** (CAN) DOOR FRAME FORWARD 50-430043-867 CRACKED ON LOWER BAYONNET HOLE TO SCREW HOLE AND 1/2" BEYOND. OTHER SCREW HOLE TO BAYONNET HOLE. DOOR FRAME AFT 50-430043-865 CRACKED ON UPPER BAYONNET HOLE TO SCREW HOLE ONE ONLY. STARTER GEN OVERHEATED 23085001 **ENGINE** CA010905005 1900C PT6A65B 1112 (CAN) A/C DEPARTED AIRPORT, 5 MINUTES AFTER TAKEOFF THE LT GENERATOR ANNUNCIATOR ILLUMINATED & CREW REPORTED SMELLING ASTRANGE BURNING ODOUR. THEY TURNED A ROUND RETURNED TO AIRPORT. AN UNEVENTFUL LANDING WAS MADE & A/C SENT TO HANGAR. THE FLOOR BOARDS WERE LIFTED & THE ODOUR INCREASED. THE LT GENERATOR CONTROL UNIT WAS FOUND TO BE THE CAUSE, IT WAS REPLACED. THE LT START/GEN WAS ALSO FOUND TO BE OVERHEATED & REPLACED. THE CIRCUIT BREAKER FOR THE SYSTEM WAS FOUND POPPED BUTOBVIOUSLY TOO LATE. IT WAS RESET & THE SYSTEM TESTED WITH NO FURTHER FAULTS. GENERATOR TORQUE LINK BEECH **PWA** CRACKED 08/15/2001 CA010831003 1900D PT6A67D 1148100217 MLG 3969 (CAN) DURING BRAKE REMOVAL THE AME FOUND A CRACK ON THE TORQUE LINK LUG. AFTER INSPECTION WE FOUND BOTH SIDES CRACKED.THE PARTS WERE REPLACED. BEECH ANTENNA CRACKED 08/16/2001 VP10 VHFSYSTEM 2001FA0000367 A/C ARRIVED WITH AN ANTENNA 'FLUTTERS' SOUAK, UPON INSPECTION OF VHF COMM ANTENNA, IT WAS NOTED THAT THE ANTENNA WAS INSTALLED WITH NO SUPPORTING DOUBLER. UPON ANTENNA REMOVE, A 5.5 INCH RADIAL CRACK WAS DISCOVERED AROUND THE ANTENNA BASE. THE ADJOINING STRINGER IS ALSO CRACKED. THE SKIN UNDER THE ANTENNA WAS CORRODED DUE TO NO SEALANT BEING APPLIED TO THE ANTENNA BASE AFTER LYC **ELECTROSYS** BEARING DEPARTED 08/16/2001 FWD BUSHING 2001FA0000392 O360A1G6D IN STARTER DRIVE END CASTING, THE (FORWARD) BUSHING DEPARTED FROM THE CASTING THIS IS THE FORWARD PIVOT BUSHING/ BEARINGFOR THE BENDIX DRIVE SHAFT. 432.24 HOURS OF FLIGHT TRAINING, OVERHAULED BY MFG. BEECH CONT EXHAUST PIPE FAULTY 09/04/2001 AUS20010990 95C55 IO520C IO520C K9695000277 **ENGINE** (AUS) LH ENGINE EXHAUST PIPE HELD ON BY REAR CLAMP ONLY AND TOUCHINGFIREWALL. HEAT AFFECTED PLASTIC JOINER TUBE FOR PITOT SYSTEMLOCATED BEHIND FIREWALL. TORQUE TUBE CRACKED 08/14/2001 BEECH PW A BEECH PT6A28 1156100103 **ELEVATOR** CA010828023 (CAN) UPON PERFORMING THE SB2145 ON THE COMPONENT.FIRST INSPECTION FROM FACTORY, WE DO IT UPON ARRIVAL FOR QUALITY REASONS, A CRACK WAS FOUND DURING THE LPI PROCESS. THE CRACK TRAVELS FROM INSIDE THE HOLE TO APROX. 4MM OUTSIDE THE HOLE RUNNING AXIAL ALONG THE TUBE. TUBE WAS REJECTED. BEECH BLADE. SEPARATED 07/03/2001 A100 PT6A28 COMPRESSOR CA010813005 (CAN) ON TAKEOFF PARTIAL LOSS OF POWER EXPERIENCED ON RT ENGINE. TAKEOFF ABORTED. UPON SUBSEQENT TEAR DOWN WITH A PRATT& WHITNEY REPRESENTATIVE PRESENT, IT HAS BEEN DETERMINED THAT A COMPRESSOR TURBINE BLADE SEPARATED AND DAMAGED COMPONENTS DOWNSTREAM IN ENGINE.

BEECH A36			BRACKET	CRACKED MLG DOOR	09/18/2001 2001FA0000307	
WHILE PERFOR				FOUND AT THE REAR RIGH	T INBOARD GEAR DOOR I	
		SELAGE CLOSEOUT F CKED. CAUSE UNKNO		ERED THAT THE FORWARD	TWO INBOARD GEAR DO	OR HINGE
BEECH	LYC	CRED. CHOSE CIVILIVO	BLOCK	CRACKED	07/15/2001	
23	O360*			ENGINE	2001FA0000328	
				UIT. AIRCRAFT MADE EMEI		
	D COWLING, FO ANNUAL INSPE		AFT, LEFT, TOPSIDE O	F ENGINE BLOCK. ENGINE I	HAS 2776 HOURS SINCE O	VERHAUL. 15
EECH	ANNUAL INSEE	BEECH	PISTON	CRACKED	09/18/2001	4611
300			505211516	FLAP ACTUATOR	2001FA0000323	
				RE THE END PLUG IS ATTAC		
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EECH	PWA		CROSSBEAM	CRACKED	08/20/2001	2617
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OT FOLLOW S	STANDARD				, , ,	
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5A1	T5313B	212076007003	MS28775212	PISTON	CA010921005	DD 1144 10
				OSS. SUBSEQUENTLY THE P EVEALED THAT THE #2 HYD		
				ING THAT THE PISTON O-RI		
		MBLED ACCUMULAT		ING TIET TIET ISTON O-KI	NOTIND SELLT THE O-KIN	G WAS
ELL			HOUSING	STRIPPED	06/12/2001	8864
6B			206040236017	GEARBOX	JJWA073276	
				ICH WHEN INSTALLING FW	UNIT IN ENGINE - HIDDE	N DAMAGE N
		AUL FACILITY. NEW F	IOUSING SENT BY CSF.		06/22/2001	
ELL)6B	ALLSN 250C20		ENGINE	MALFUNCTIONED NACELLE	06/23/2001 2001FA0000300	
		IE ENGINE FLAMED (OUT OR SURGED. THE I	ENGINE WAS RUN ON A TES		ED: 1)A
YCLING ANTI	-ICE VALVE SC	LENOID. 2) A RICH FU	JEL FLOW. 3) A WARPE	ED OUTER COMBUSTION CH	AMBER. THIS TOGETHER,	COULD
AUSEA SURG						
ELL)6B	ALLSN 250C20		BLADE 206016201133	DENTED TAIL ROTOR	07/23/2001 CA010810005	106
		ECTION THE PILOT N		HE LEADING EDGE OF THE N		INSPECTION
				O THE INVESTIGATION IT W		
OOSE FROM T	HE GEARBOX !	FAIRING INTO THE T/	R BLADE PATH. NO OT	HER		
				DAMAGED	09/18/2001	808
6B3	250C20B	DI ADEC CHI DHIDATI	6886407	TURBINE SECTION OF 930 DEGREES ON 2-23-00	HEEA075929 BOI	
				LACED WITH SERVICEABLE		DE
ELL	ALLSN	ED TOR OVERTENT.	TURBINE	DAMAGED	09/18/2001	808
6B3	250C20B		6898782	ENGINE	HEEA075930 BOI	T BROKEN C
				OF 930 DEGREES ON 2-23-00.	PARTS WERE FOUND TO	BE
			PART SCRAPPED. REPI		07/12/2001	
ELL 6B3	ALLSN 250C20B	BELL 206011810	TRUNNION 206011812001	CRACKED TAIL ROTOR HEAD	07/12/2001 AUS20010893	2400
				OSITIVE CRACK INDICATION		
SPECTIONS.						
ELL	ALLSN		FITTING	CRACKED	08/19/2001	
6L	250C20R	IDDED LEET TALL ATT	206031329103S	TAILBOOM	CA010912003	
				CRACKED.REPLACED AS PI AREA OF TAILBOOM/FUSEL		PAIR MANUA
ELL	ALLSN	BELL	BLADE	TORN	08/14/2001	2585
6L1	250C28B	206011810013	22.122	TAIL ROTOR	CA010827009	2000
				D STRUCK THE TAIL ROTOF		
				EADING EDGE. THE A/C LAN	NDED SAFELY. NO OTHER	DAMAGES
	EW COVER TO	T/R ASSY INSTALLED	A/C RETURNED TO SE		00/10/000	
ELL 16L3			ATTACH 206031329103S	MISMANUFACTURE TAILBOOM	09/10/2001 HEEA075961	
	NOT SIT FLAT #	GAINST TAILBOOM		TAILBOOM MACHINED FLAT AND HAS A		NTOUR SO
TTING WILL				. ALSO FOUND FITTING TO E		
		Γ HOLE. SENT TO BEL				
HERE IS A GA	(ATTACH BOL.					
HERE IS A GA HETAILBOOM ELL	ALLSN	BENDIX	SPRING	DEFECTIVE	07/27/2001	
HERE IS A GA HETAILBOOM ELL 06L3	ALLSN 250C30P		SPRING	DEFECTIVE CONTROL ARM RUN THE RPM AND TOUQUE	2001FA0000301	1694

BELL			CONNECTOR	SHORTED	09/24/2001	
212			M39012160004	NR 1 VHF RADIO	HEEA076050	
				NCE FOUND WIRING HARN	ESS FROM NR 1 VHF RADI	ОТО
	TING SHORTED . PWA	AT CANNON PLUG.	CTIID	MICCINIC	09/10/2001	
BELL 212	PWA PT6T3B	BELL 212040001059	STUD 209040110015	MISSING TRANSMISSION	CA010911002	
				ON THE TRANSMISSION TH		BROKEN OFF
		ILE CHANGING A SERV				
BELL	LYC		HOSE	DETERIORATED	09/26/1999	12261
214B	T5508D	D CALICED DUDDED TO	700607000230	HYD SYSTEM HE HOSE CLAMP WHICH C.	CA010921003	12261 NC ABOUND
		USING THE HOSE TO LI		HE HUSE CLAMP WHICH CA	AUSED THE STEEL BRADE	NG AKOUND
BELL	PWA	JOHNO THE HODE TO E	WINDOW	FAILED	08/27/2001	
412	PT6T3		412670101	COCKPIT	AUS20010939	
		WINDOW FAILED. MIN		ADIO ANTENNA CONNECTO		
BELL 412	PWA PT6T3B		ENGINE	STALLED NACELLE	10/09/2001 HEEA076258	20429
		5 PERCENT N1 AND O'	VERTEMP (PEGGED OI	NACELLE IT GAUGE). SENT TO PRAT		PECTION ANI
REPAIR.	JINEES NEOVE O	5 TERCENT INT THIS O	VERTERNI (LEGGED GC	or one obj. bent to then	THE WINING TORING	Lemon
BELL			BEARING	RATCHETING	06/12/2001	
430			430310461101	SWASHPLATE	AC2A075803	
WITH SWASHPI BEARING.	LATE INSTALLEI	ON ACFT. BEARING F	FELT RATCHETY. BEAF	RING WAS THE NEW UPDA	TED STLYE. REMOVED AN	ID REPLACEI
BELL			PIN	BROKEN	06/12/2001	3447
430			MS1652245	MAIN ROTOR	AC2A075804 FOUN	
	OSE AND UPON I	DISASSEMBLY FOR IN	SP. FOUND PIN BROKE	N. REPLACED BROKEN PI		
BELL		40000000	RESTRAINT	LOOSE	06/12/2001	585
430	ON DIGD AND H	430010100113	430310101107	MAIN ROTOR	AC2A075805	EDI A CED
FOUND LOOSE RESTRAINT AN		FON DISASSEMBLY FO	JOND KOLL PIN BKOK	EN WHICH ALLOWED MO	VENIENT IN CLAMP-UP. R	ETLACED
BELL	ALLSN		ENGINE	DAMAGED	08/21/2001	
430	250C*			NR 2	AC2A075840	
				O BE DAMAGED. SUSPECT		
				MBLED . THE COMPRESSOI	R WAS REMOVED AND DIS	SASSEMBLED
THE TURBINE A BELL	ALLSN	THE COMPRESSOR SCI	ROLL WAS REMOVED A BLEED VALVE	LOOSE	07/02/2001	374
430	250C40B		23005366	ENGINE	AC2A075814	374
POWER ASSUR		ENGINE. FOUND NR 1		E BODY BOLTS LOOSE. RE		BLEED
VALVE.						
BOLKMS	LYC		TUBE	CRACKED	08/26/2001	
BK117A3 MINITE CRACE	LTS101650B1	MANIFOLD RIGID TR	430137601C Anseer ture Causin	FUEL MANIFOLD NG INFLIGHT FUEL LEAK. A	A244583	TRANSFER
	NIFOLDS ON LT		ANSI EK TUBE, CAUSII	O INTEIOITI TOLL LLAK. A	ALLOW OSE OF TELEXIBLE	TRANSPER
BOLKMS	LYC		MODULATOR	LOOSE	09/19/2001	
BK117B2	LTS101600A		430110217	AIRFLOW	2001FA0000312	
				DULATOR WAS CHANGEI NSIDE ELBOW AT THIS TIM		
		INSPECT FILTER ELBO		NSIDE ELDOW AT THIS TIN	IE. DRUKEN FIL I EK HAD I	NO EFFECT OF
BOLKMS	TOBELINI MODI	I WI DOT TIETEN EED	SHAFT	LEAKING	07/18/2001	
BO105A			4638302093	FREEWHEEL UNIT	ERAA074827 FREE	WHEEL
				CED. WAS PURCHASED N	EW 2/14/00. RETURNING O	N ERA
REPAIR ORDER BOLKMS	885185 REQUES	TING WARRANTY EXC	CHANGE. GEARBOX	DAMAGED	07/20/2001	2027
BOLKWIS BO105S			4619002003	TAIL ROTOR	ERAA074828	2837
	RED AND INPUT	BUSHING FRETTING.		ALLY INSPECTED. REPLAC		NPUT
				D THE LOCKING PLATE. R		
		ALED. REPAIRED IAW	BO-105 REM-304. COM	IPLIED WITH ASB BO-105-3	30-111. COPY SENT TO AMI	ERICAN
EUROCOPTERO BOLKMS	ORP.		SHAFT	LEAKING	08/09/2001	615
BOLKMS BO105S			4638302093	FREEWHEEL UNIT	ERAA075875	013
DOIUSS		S SENT TO ZF FOR OV		VAS INSTALLED ON AIRCR		RS, UNIT
	HAFT LEAKS. WA				R RW-885574 REQUESTING	,
FREEWHEEL SI CAUSING INPU		. SPECIAL COATING W	ORN. RETURNING TO	ZI ON ERRINGET THE ORDER		
FREEWHEEL SI CAUSING INPU REPAIR.	T SEAL TO LEAK	. SPECIAL COATING W			00/40/	
FREEWHEEL SI CAUSING INPU' REPAIR. CESSNA	T SEAL TO LEAK LYC	. SPECIAL COATING W	SHAFT	SHEARED	08/29/2001 2001FA0000363	521
FREEWHEEL SI CAUSING INPU' REPAIR. CESSNA 172K	T SEAL TO LEAK LYC O320*		SHAFT	SHEARED MAGNETO	2001FA0000363	
FREEWHEEL SI CAUSING INPU' REPAIR. CESSNA 172K PILOT REPORTI	T SEAL TO LEAK LYC O320*	P ON LEFT MAGNETO.	SHAFT	SHEARED	2001FA0000363	
FREEWHEEL SE CAUSING INPU REPAIR. CESSNA 172K PILOT REPORTI SHEAREDIN HA CESSNA	T SEAL TO LEAK LYC O320* ED 700 RPM DROI ALF. MAGNETO F LYC	P ON LEFT MAGNETO.	SHAFT MAGNETO REMOVED STRINGER	SHEARED MAGNETO AND INSPECTED. FOUND I CRACKED	2001FA0000363 DRIVE SHAFT/ MAGNETO/ 08/23/2001	
FREEWHEEL SH CAUSING INPU REPAIR. CESSNA 172K PILOT REPORTI SHEAREDIN HA CESSNA 172K	T SEAL TO LEAK LYC 0320* ED 700 RPM DROI ALF. MAGNETO F LYC 0320E2D	P ON LEFT MAGNETO. REPLACED.	SHAFT MAGNETO REMOVED STRINGER 05131324	SHEARED MAGNETO AND INSPECTED. FOUND I CRACKED FUSELAGE	2001FA0000363 DRIVE SHAFT/ MAGNETO/ 08/23/2001 CA010907010	ROTOR 13201
FREEWHEEL SH CAUSING INPU REPAIR. CESSNA 172K PILOT REPORTI SHEAREDIN HA CESSNA 172K (CAN) DURING	T SEAL TO LEAK LYC 0320* ED 700 RPM DROI ALF. MAGNETO F LYC 0320E2D ROUTINE MAINT	P ON LEFT MAGNETO. REPLACED. TENANCE INSPECTION.	SHAFT MAGNETO REMOVED STRINGER 05131324 ,IT WAS DISCOVERED	SHEARED MAGNETO AND INSPECTED. FOUND I CRACKED FUSELAGE THAT THE RIGHT HAND E	2001FA0000363 DRIVE SHAFT/ MAGNETO/ 08/23/2001 CA010907010 NGINE RAIL WAS CRACKI	ROTOR 13201
FREEWHEEL SH CAUSING INPU REPAIR. CESSNA 172K PILOT REPORTI SHEAREDIN HA CESSNA 172K (CAN) DURING 0513132-4 STRIN	T SEAL TO LEAK LYC 0320* ED 700 RPM DROI ALF. MAGNETO F LYC 0320E2D ROUTINE MAINT	P ON LEFT MAGNETO. REPLACED. TENANCE INSPECTION.	SHAFT MAGNETO REMOVED STRINGER 05131324 ,IT WAS DISCOVERED SECTION STRUCTURE	SHEARED MAGNETO AND INSPECTED. FOUND I CRACKED FUSELAGE THAT THE RIGHT HAND E ASSEMBLY WAS REPLACE	2001FA0000363 DRIVE SHAFT/ MAGNETO/ 08/23/2001 CA010907010 NGINE RAIL WAS CRACKI ED.	ROTOR 13201
FREEWHEEL SI CAUSING INPU REPAIR. CESSNA 172K PILOT REPORTI SHEAREDIN HA CESSNA 172K (CAN) DURING 0513132-4 STRIN CESSNA	T SEAL TO LEAK LYC 0320* ED 700 RPM DROI ALF. MAGNETO F LYC 0320E2D ROUTINE MAINT	P ON LEFT MAGNETO. REPLACED. TENANCE INSPECTION.	SHAFT MAGNETO REMOVED STRINGER 05131324 ,IT WAS DISCOVERED	SHEARED MAGNETO AND INSPECTED. FOUND I CRACKED FUSELAGE THAT THE RIGHT HAND E	2001FA0000363 DRIVE SHAFT/ MAGNETO/ 08/23/2001 CA010907010 NGINE RAIL WAS CRACKI	ROTOR 13201
FREEWHEEL SI CAUSING INPU REPAIR. CESSNA 172K PILOT REPORTI SHEAREDIN HA CESSNA 172K (CAN) DURING 0513132-4 STRIN CESSNA 172N	LYC O320* ED 700 RPM DROI ALF. MAGNETO F LYC O320E2D ROUTINE MAINT NGER ASSEMBLY LYC O320*	P ON LEFT MAGNETO. REPLACED. PENANCE INSPECTION. Y IN FUSELAGE FRONT	SHAFT MAGNETO REMOVED STRINGER 05131324 ,IT WAS DISCOVERED SECTION STRUCTURE CRANKCASE LW16819	SHEARED MAGNETO AND INSPECTED. FOUND I CRACKED FUSELAGE THAT THE RIGHT HAND E ASSEMBLY WAS REPLACE CRACKED	2001FA0000363 DRIVE SHAFT/ MAGNETO/ 08/23/2001 CA010907010 NGINE RAIL WAS CRACKI ED. 09/12/2001 2001FA0000358	ROTOR 13201 ED. P/N
FREEWHEEL SH CAUSING INPU REPAIR. CESSNA 172K PILOT REPORTI SHEAREDIN HA CESSNA 172K (CAN) DURING 0513132-4 STRIN CESSNA 172N ENGINE FOUNL THE NR 2 CYLII	LYC O320* ED 700 RPM DROI ALF. MAGNETO F LYC O320E2D ROUTINE MAINT NGER ASSEMBLY LYC O320* D TO BE CRACKE NDER PAD TO TH	P ON LEFT MAGNETO. REPLACED. TENANCE INSPECTION. IN FUSELAGE FRONT D. THE FRACTURE OCC	SHAFT MAGNETO REMOVED STRINGER 05131324 IT WAS DISCOVERED SECTION STRUCTURE CRANKCASE LW16819 CURRED ON THE LEFT	SHEARED MAGNETO AND INSPECTED. FOUND I CRACKED FUSELAGE THAT THE RIGHT HAND E ASSEMBLY WAS REPLACE CRACKED ENGINE	2001FA0000363 DRIVE SHAFT/ MAGNETO/ 08/23/2001 CA010907010 NGINE RAIL WAS CRACKI ED. 09/12/2001 2001FA0000358 NG FROM THE 9 OCLOCK F	ROTOR 13201 ED. P/N POSSITION OF
FREEWHEEL SH CAUSING INPU REPAIR. CESSNA 172K PILOT REPORTI SHEAREDIN HA CESSNA 172K (CAN) DURING 0513132-4 STRIN CESSNA 172N ENGINE FOUNE THE NR 2 CYLII CASTING PROC	LYC O320* ED 700 RPM DROI ALF. MAGNETO F LYC O320E2D ROUTINE MAINT NGER ASSEMBLY LYC O320* D TO BE CRACKE NDER PAD TO TH	P ON LEFT MAGNETO. REPLACED. TENANCE INSPECTION. IN FUSELAGE FRONT D. THE FRACTURE OCC	SHAFT MAGNETO REMOVED STRINGER 05131324 ,IT WAS DISCOVERED SECTION STRUCTURE CRANKCASE LW16819 CURRED ON THE LEFT IS AREA. THIS CRACK	SHEARED MAGNETO AND INSPECTED. FOUND I CRACKED FUSELAGE THAT THE RIGHT HAND E ASSEMBLY WAS REPLAC CRACKED ENGINE HAND CASE HALF RUNNII WAS CAUSED BY POOR SC	2001FA0000363 DRIVE SHAFT/ MAGNETO/ 08/23/2001 CA010907010 NGINE RAIL WAS CRACKI ED. 09/12/2001 2001FA0000358 NG FROM THE 9 OCLOCK FAVENGING OF AIR DURIN	ROTOR 13201 ED. P/N POSSITION OF G THE
FREEWHEEL SI CAUSING INPU REPAIR. CESSNA 172K PILOT REPORTI SHEAREDIN HA CESSNA 172K (CAN) DURING 0513132-4 STRIN CESSNA 172N ENGINE FOUNL THE NR 2 CYLII CASTING PROC CESSNA	LYC O320* ED 700 RPM DROI ALF. MAGNETO F LYC O320E2D ROUTINE MAINT NGER ASSEMBLY LYC O320* D TO BE CRACKE NDER PAD TO TH	P ON LEFT MAGNETO. REPLACED. TENANCE INSPECTION. IN FUSELAGE FRONT D. THE FRACTURE OCC	SHAFT MAGNETO REMOVED STRINGER 05131324 IT WAS DISCOVERED SECTION STRUCTURE CRANKCASE LW16819 CURRED ON THE LEFT	SHEARED MAGNETO AND INSPECTED. FOUND I CRACKED FUSELAGE THAT THE RIGHT HAND E ASSEMBLY WAS REPLACE CRACKED ENGINE HAND CASE HALF RUNNII WAS CAUSED BY POOR SC	2001FA0000363 DRIVE SHAFT/ MAGNETO/ 08/23/2001 CA010907010 NGINE RAIL WAS CRACKI ED. 09/12/2001 2001FA0000358 NG FROM THE 9 OCLOCK FAVENGING OF AIR DURIN 09/24/2001	ROTOR 13201 ED. P/N POSSITION OF
FREEWHEEL SI CAUSING INPU REPAIR. CESSNA 172K PILOT REPORTI SHEAREDIN HA CESSNA 172K (CAN) DURING 0513132-4 STRIN CESSNA 172N ENGINE FOUNL THE NR 2 CYLII CASTING PROC CESSNA 172R	LYC O320* ED 700 RPM DROI ALF. MAGNETO F LYC O320E2D ROUTINE MAINT NGER ASSEMBLY LYC O320* D TO BE CRACKE NDER PAD TO TH ESS.	P ON LEFT MAGNETO. REPLACED. TENANCE INSPECTION. IN FUSELAGE FRONT D. THE FRACTURE OCCURE MAIN BEARING BOS	SHAFT MAGNETO REMOVED STRINGER 05131324 IT WAS DISCOVERED SECTION STRUCTURE CRANKCASE LW16819 CURRED ON THE LEFT IS AREA. THIS CRACK V	SHEARED MAGNETO AND INSPECTED. FOUND I CRACKED FUSELAGE THAT THE RIGHT HAND E ASSEMBLY WAS REPLACE CRACKED ENGINE HAND CASE HALF RUNNII WAS CAUSED BY POOR SC. DAMAGED ELECTRICAL	2001FA0000363 DRIVE SHAFT/ MAGNETO/ 08/23/2001	ROTOR 13201 ED. P/N POSSITION OF G THE 870
FREEWHEEL SI CAUSING INPU REPAIR. CESSNA 172K PILOT REPORTI SHEAREDIN HA CESSNA 172K (CAN) DURING 0513132-4 STRIN CESSNA 172N ENGINE FOUNE THE NR 2 CYLII CASTING PROC CESSNA 172R PILOT REPORTI	LYC O320* ED 700 RPM DROI ALF. MAGNETO F LYC O320E2D ROUTINE MAINT NGER ASSEMBLY LYC O320* D TO BE CRACKE NDER PAD TO TH ESS. ED LOSS OF HALL	P ON LEFT MAGNETO. REPLACED. TENANCE INSPECTION. IN FUSELAGE FRONT D. THE FRACTURE OCCEMAIN BEARING BOS F OF AVIONICS BUSS.	SHAFT MAGNETO REMOVED STRINGER 05131324 IT WAS DISCOVERED SECTION STRUCTURE CRANKCASE LW16819 CURRED ON THE LEFT S AREA. THIS CRACK V BUSS INCLUDING ONE NAV/	SHEARED MAGNETO AND INSPECTED. FOUND I CRACKED FUSELAGE THAT THE RIGHT HAND E ASSEMBLY WAS REPLACE CRACKED ENGINE HAND CASE HALF RUNNII WAS CAUSED BY POOR SC	2001FA0000363 DRIVE SHAFT/ MAGNETO/ 08/23/2001 CA010907010 NGINE RAIL WAS CRACKI ED. 09/12/2001 2001FA0000358 NG FROM THE 9 OCLOCK F AVENGING OF AIR DURIN 09/24/2001 2001FA0000352 E AND A BAD ODOR IN TH	ROTOR 13201 ED. P/N POSSITION OF G THE 870 HE
FREEWHEEL SH CAUSING INPU REPAIR. CESSNA 172K PILOT REPORTI SHEAREDIN HA CESSNA 172K (CAN) DURING 0513132-4 STRIN CESSNA 172N ENGINE FOUNL THE NR 2 CYLII CASTING PROC CESSNA 172R PILOT REPORTI COCKPIT. WIRE PIN 11 TO JV001	LYC 0320* ED 700 RPM DROI ALF. MAGNETO F LYC 0320E2D ROUTINE MAINT NGER ASSEMBLY LYC 0320* D TO BE CRACKE NDER PAD TO TH ESS. ED LOSS OF HALL NR 2H1002 (22 G, PIN 1. THE RED	P ON LEFT MAGNETO. REPLACED. TENANCE INSPECTION, IN FUSELAGE FRONT D. THE FRACTURE OCC E MAIN BEARING BOS F OF AVIONICS BUSS, I AUGE) BURNED FROM LEAD FROM THE TAIL	SHAFT MAGNETO REMOVED STRINGER 05131324 ,IT WAS DISCOVERED SECTION STRUCTURE CRANKCASE LW16819 CURRED ON THE LEFT SS AREA. THIS CRACK V BUSS INCLUDING ONE NAV/ THE NAV. LIGHT C/B S	SHEARED MAGNETO AND INSPECTED. FOUND I CRACKED FUSELAGE THAT THE RIGHT HAND E ASSEMBLY WAS REPLACE CRACKED ENGINE HAND CASE HALF RUNNIN WAS CAUSED BY POOR SC DAMAGED ELECTRICAL COM AND GPS AND SMOK	2001FA0000363 DRIVE SHAFT/ MAGNETO/ 08/23/2001 CA010907010 NGINE RAIL WAS CRACKI ED. 09/12/2001 2001FA0000358 NG FROM THE 9 OCLOCK FAVENGING OF AIR DURIN 09/24/2001 2001FA0000352 E AND A BAD ODOR IN THE JC001 CONNECTOR AND FIT-PLATE ON THE RUDDER	ROTOR 13201 ED. P/N POSSITION OF G THE 870 HE ROM PC001,

						0 10 1011
CESSNA			WIRE	BURNED	09/27/2001	874
172R			2H1002	NAVIGATION	2001FA0000378	
SWITCH TO PIN OUT TO NUT-PLA	11 OF THE JC001 C ATE ON RUDDER T	ONNECTOR AND FROM THAT HOLDS RUDDE	OM PC001, PIN 11 TO ER TIP ON, BUT DOES	IN COCKPIT. T/S, FOUND WII JV001, PIN 1. RED LEAD FRO NOT DISPLAY EVIDENCE O	M TAIL NAV LIGHT HOUS FOVERHEATING, OTHER	ING SHORTED ΓΗΑΝ
				WHEN WIRE NR 2H1002 MEL		
				NECTING THE 5 AMP BREAK		
CESSNA	ED, LAST SECTION LYC	I TO BREAKER IS BU	INJECTOR	CTION THAT MELTED INTO A MALFUNCTIONED	08/21/2001	DLE. UNCE
172R	IO360L2A		INJECTOR	ENGINE	2001FA0000309	
		L POWER AFTER LO	NG POWER OFF DEC	ENT AT HIGH DENSITY ALT		RECTIVE
				-042240. FLOW DIVIDER MOI		
CESSNA	LYC	CESSNA	BRUSHES	FAILED	08/02/2001	472
172R	IO360L2A	991059111		ALTERNATOR	CA010831012	
` '			OR INTERIOR INSPE	CTION REVEALED A BROKE	N BRUSH BLOCK ASSEMB	LY CAUSED
CESSNA	TINSTALLATION. LYC	CESSNA	BRUSHES	BROKEN	08/16/2001	445
172R	IO360L2A	9910591111	9910591111	ALTERNATOR	CA010831013	443
				CTION REVEALED A BROKE		LY CAUSED
, ,	ΓINSTALLATION					
CESSNA	LYC		BOLT	MISSING	09/06/2001	4577
172RG	O360F1A6			BRAKE CYLINDER	2001FA0000382	
				OISTED UP AND THE GEAR F		FOUND A
CESSNA	LYC	KAKE CYLINDER. PE	BUSHING	GEAR RETRACTIONS AND (FAILED	08/13/2001	137
172RG	O360F1A6		24900022	GEAR ACTUATOR	2001FA0000337	137
		GEAR ACTUATOR AS		ORKED ITS WAY OUT OF HO		URS SINCE
		HING FOUND BAD W				
CESSNA	LYC		PIVOT	BROKEN	07/30/2001	921
172RG	VO360*		244110010	RTMLG	2001FA0000338	
			,	OFF GEAR FROM PIVOT. THIS AND DYE PENTRANT FOR CI		
				RAFT LANDED WITH NO DA		ERVICE KII
CESSNA	ED. 113 HOURS L	ATER ON 07/27/2001	SPINNER	DAMAGED	08/24/2001	
172S			055032110	PROPELLER	2001FA0000325	
NUTPLATE BRO	KEN OFF. CHANG	ED NUMEROUS SPIN	NERS AND BACK PL	ATES BECAUSE THE PRE-DI	RILLED HOLES DO NOT LI	NE UP WITH
		R BACK PLATE. THIS	IS A COMMON PROB			
CESSNA	LYC		INJECTOR	CLOGGED	10/08/2001	597
172S	IO360L2A	THE ENC	LW18265	ENGINE G ROUGH, AT WHICH TIME H	2001FA0000395	27
TECHNICIAN CO INSPECTED AND	ULD NOT DUPLIC THE NR 2 INJECT	ATE THE MALFUNC OR WAS FOUND TO	TION ON A GROUND	RUN UP. THE FUEL INJECTO NJECTOR NOZZLES WERE CL	R NOZZLES WERE REMOV	ED &
CESSNA	LYC	TII, AND THE AIRCR	BULKHEAD	CRACKED	07/11/2001	72
172S	IO360L2A		055032110	SPINNER	2001FA0000388	
				E AFT SPINNER BULKHEAD		
THE SPINNER HAR	AD STARTED TO D FACTORY NEW.		ALONG THE BEND I	O THE BROKEN PIECE WAS P RADIUS. BOTH THE SPINNER	R AND AFT SPINNER BULK	
CESSNA	LYC		PANEL	LOOSE	09/09/2001	
177B	O360*	LAT CONTROL VOVI	WOLLD NOT DILL	TRANSPONDER BACK TO RAISE THE ELEVA	2001FA0000379	AC FOLIND
THAT THE PANE CONTAINING AN CLOSE CALL. AN	L MOUNT TRAY F ND RESTRICTING A N ADDITIONAL SU	FOR THE TRANSPON AFT MOVEMENT OF T PPORT WAS INSTAL	DER ON THE RIGHT S THE CONTROL YOKE LED ON THE BACK C	SIDE OF THE PANEL HAD DR THE AIRCRAFT COULD NO OF THE TRAY. AVIONICS INS	OPPED .2500 OF INCH ANI I ROTATE ON TAKEOFF AI TALLER OVER-LOOKED T	O WAS ND IT WAS A HE
		PING DOWN. UNDER		LD BE INSPECTED AT EACH	*	
CESSNA 182S	LYC IO540*		SWITCH S2870	INOPERATIVE PILOT PTT	09/18/2001 2001FA0000386	548
		SWITCH WENT BAD V		CH TIME. REPLACE THE BAD		E. THE NEW
SWITCH WAS BACAREFUL NOT T	AD ALSO, THEN RE O OVERHEAT SWI	EPLACED THE NEW S	SWITCH THE SECOND	NEW SWITCH TESTED OK.	WHEN INSTALLING SWITC	
CESSNA 185F	CONT O470R		SPAR 07310292	CRACKED VERTICALSTAB	08/23/2001 AUS20010934	
		R SPAR ASSEMBLY		VERTICALSTAB REAS ADJACENT TO THE FUS		CHMENT
POINT.			C.L.ICHED IN 1 WO AF	LL LO TIDOTICE TO THE PUL	LL. IOL BOLKIILAD III IA	C.11111111
CESSNA	PWA		TIRE	FAULTY	08/14/2001	
208B	PT6A114A		29X111010PR	MLG	AUS20010923	
			DEWARDS DEFLECT	ION DURING LANDING CAU	SING THE TYRE TO CONTA	ACT THE
	LY. TYRE SIZE 292 PWA	X11.0X10 10PLY.	POI T	DAMAGED	08/03/2001	3800
CESSNA 208B	PWA PT6A114A		BOLT NAS148A94	DAMAGED ENGINE MOUNT	08/03/2001 CA010831007	3000
		INTENACE FOUND F		Γ PART NO. NAS 148A94 (S34		NGINE MOUN
				C8 NOT INSTALLED AT FACT		
				NE MOUNT BOLTS AT RIGHT		
				THE THREE REMAINING CE	SSNA 208B AIRCRAFT IN T	HÉ FLEET
WERE INSPECTE CESSNA	D FOR THE SAME	CONDITION WITH N CESSNA	O DISCREPANCIES N BOLT	IOTED. CRACKED	08/08/2001	5891
210K		CESSINA	NAS464P4A29	MLG ACTUATOR	08/08/2001 RFS20011	2071
	NG THE RT MLG A	ACTUATOR AS PART		H CESSNA SEB01-2, IT WAS I		F THE THREE
NAS ATTACH BO FAILED BETWEE	OLTS WAS BROKE EN THE FIRST AND	N.IT WAS ONLY BEIN	NG HELD IN PLACE B	Y THE SAFETY WIRE LINKIN HE SHANK OF THE BOLT. PR	NG THE THREE BOLTS. THI	E BOLT HAD
NAS BOLTS TO C	OKKECI.					

CESSNA	CONT		ALTERNATOR	FAILED	08/11/2001	446
305A	O47011		7565T1	ENGINE	CA010821005	151
				R WAS NOTICED THAT THE SPI		
				W THE CASTLE NUT. THE CAST		
	EADED SHAFT WIT E EXACT CAUSE C		TACT. THIS PARTICUL	LAR UNIT HAS BEEN SENT TO D	IND TEST FACILITIES T	·U
CESSNA	CONT	JF FAILUKE.	PIN	SHEARED	08/30/2001	
340CESSNA	TSIO520K		MS16562130	LANDING GEAR	AUS20011007	
		NUAL EMERGENCY E		NTERCONNECT SHAFT SPROCE		ED.
CESSNA	CONT		WASHER	MISSING	08/31/2001	
402CESSNA	TSIO520E		50450182	MAIN LANDING	AUS20010994	
		ORQUE LINK CENTRE	PIVOT WASHER NOT	FITTED.TORQUE LINKS SEPAR	ATED ALLOWING AIR	CRAFT TO
GROUND LOOP						
CESSNA	CONT	CONT	BEARING	BROKEN	08/20/2001	
404CESSNA	GTSIO520M	GTSIO520M	634503	RECIPROCATING	AUS20010974	
CESSNA	CONT	OKEN INTO THREE PL	LINE	MINATION OF ENGINE. CHAFED	09/11/2001	4224
414A	TSIO520*		5100106159	BRAKE ASSY	2001FA0000380	7227
		E CO-PILOTS SEAT PEI		FFING ON HEAT DUCT TUBING		V
				I DEVELOPING A HOLE.		
CESSNA	CONT	TELEDYNECRIT	DRIVE GEAR	DAMAGED	09/29/2001	
421C	GTSIO520L		646655A1	ALTERNATOR	2001FA0000383	
				BOUT 20 MINUTES LATER. THE		
				AL OF THE ALTERNATOR IT W		
				ND THE GEAR WAS LOOSE ON T		
				ITH THE CASTLE NUT AND CO OTHER WAS ON THE I. ENGINE		
				SMOH. NEITHER ALTERNATOR		1 1400
CESSNA	PWA	B TILLIT TOO HOURS OF	LINE	DETERIORATED	08/20/2001	5390
425	PT6*		510010951	OXYGEN SYSTEM	2001FA0000320	
LEFT SIDE WAL	L WAS REMOVED	TO INSTALL RADIO E	QUIPMENT. THE VERT	TICAL DUCT FOR AIR TO OVER	HEAD WEMAC SHOWE	D DEFINITE
				VATION, THE OXYGEN LINE CR		
				RED, AND HAD 2 HOLES IN THE		
				AIRCRAFT. MANUFACTURED		Έ
		W DUCT. SPIRAL WRA		WHERE CONTACT WITH DUCT		
CESSNA 441	GARRTT		STARTER GEN 23079004	FAILED	08/23/2001 CA010830007	84
	TPE3318	HELOCT TOTAL DOW		RT ENGINE ESTIGATION FOUND THAT THE		
				NGS, DESTROYING ALL WORK		
		U FAILURE AND A NO.		NGS, DESTROTING ALL WORK	ING CALABEITT OF 51	AKIEK
CESSNA	PWA	CESSNA	CLAMP	LOOSE	10/03/2001	
500CESSNA	JT15D1A	CM357024	S189148	CLAMP	CA011004008	
(CAN) CLIMBING	G THROUGH FLIG	HT LEVEL 290, AIRCRA	FT CABIN STARTED	ГО RAPIDLY CLIMB. FLIGHT CR	EW INITIATED A RAPI	D DECENT
				NANCE FOUND CLAMP ON CA		
				CRAFT HAD RECENTLY HAD M		
	SYSTEM. ALL OT	HER CLAMPS IN THE B	LEED AIR SYSTEM W	ERE CHECKED FOR SECURITY	WITH NO FURTHER PF	ROBLEM
FOUND.			OTRINGER	DAMAGED	10/11/2001	0156
CESSNA 550			STRINGER CM32091	DAMAGED FUSELAGE	10/11/2001 2001FA0000397	9156 9156
	IONICS INSTALLA	TION EVENT WITH TH		IOR REMOVED IT WAS NOTED		
				AT ONE TIME TO "BLANK OUT		
				PRACTICES WERE EXHIBITED I		
INTERNAL DOU	BLERS, THAT INC	LUDED LARGE HOLES	CUT IN THE UPPER O	CENTERLINE STRINGER ABOUT	Γ BL 0.00 AT APPROX.	FUSELAGE
	. THE TWOHOLES	CREATED SIGNIFICAN		' FLANGE, IN CONTACT WITH T		
CESSNA			LINE	CHAFED	09/28/2001	5921
650	W. 1.0. M. 1. 2	IDED Many my	6207010144	HYD SYSTEM	2001FA0000364	PMI ID \$ 1 4 5 5 5 5
				ND RETURN LINES CONTACTING		
			,	NE WAS ALSO SEVERLY WORN		
				THE REPLACEMENT OF MANY ARE IN CONTACT CAN BE VER'		
				IER CESSNA 650 THAT WAS IN		
				THIS MODEL AIRCRAFT TO	SHOLAND IT HAL	
CESSNA	ALLSN	DDD1010	ACM	SEIZED	08/06/2001	1113
750	AE3007C		73838430	CABIN COOLING	2001FA0000342	-
			TINE USAGE. PROBAE	LE CAUSE IS BEARING FAILUR	RE. UNIT WAS OPERAT	ED
,		AS SCHEDULED.				
CESSNA	LYC		TUBE	DISCONNECTED	09/20/2001	
A185F	TIO540*		3190	FLOAT PUMP	2001FA0000362	
				WING THE WATER TO BE PUMP	FROM FLOAT. AIRCR.	AFT
		N AND STARTED TO SI		DAMAGED	02/14/2001	
CESSNA	CONT		PISTON	DAMAGED	02/14/2001	
R172K	IO360K INDER PISTON HO	I ED IN AREA OF DING	GROOVES EXCESS	ENGINE VE CRANKCASE PRESSURE VE	AUS20010938	THE
				ROD BIGEND FAILURE. INVEST		
		WORKING IN THE RI				
CESSNA	LYC		CONTACTOR	FAILED	08/22/2001	138
R182	O540*		S1577A1	STARTER	2001FA0000311	
				COND FAILURE OF A NEW CON	TACTOR IN LESS THAT	N 140 HOURS.
(ONE STARTER O	CONTACTOR, ONE	MASTER CONTACTOR	2)			

ESSNA	PWA		VALVE	FAILED	09/12/2001	
550	JT15D4		99123057	BRAKE	CA010913004	7984
CAN) FOLLOWI	NG AN UNEVENT	FUL LANDING AN	D WHILE TAXING AFT	ER THE LANDING ROLL OUT	, THE CREW ENCOUNTERI	ED A BRAK
				OP THE AIRCRAFT. MAINTEN		
				ITI SKID VALVE ASSEMBLY I		ASSY WAS
		DUCTED IN ACCO		I AND THE AIRCRAFT RELEA		
ESSNA	CONT		RIB	CRACKED	09/20/2001	3505
210L	TSIO520*		CD + CV CV DDCDT DD +	LEFT WING	2001FA0000361	, our
				CKETS ARE MOUNTED, CRAC		
		APPROX. ONE(1) I	NCH IN LENGTH DOWN	N AND TO THE LEFT. PROBA	BLE CAUSE: FLAPS EXTEN	DED AT TO
IGH OF AN AIR ESSNA	CONT	SLICK	DISTRIBUTOR	DUDNED	08/09/2001	106
ESSNA U206G	TSIO520M	6310	M3820	BURNED MAGNETO	CA010827004	106
				LY LH WAS DUE WHEN RH M		SI IED BV
				H AT HIGH TENSION BRUSH		
		MAGNETO CHECI		III AT THOS TENSION BROSS	AREA OF DISTRIBUTER DE	COCK NO
ESSNA	CONT	MITORETO CILCI	ARM	CRACKED	08/13/2001	2965
206G	IO550F		0411307	RUDDER	CA010821011	
		JAL INSPECTION.		R PEDAL ARM FOUND LOOS		D IN TWO
			TO THE BOTTOM OF T			
ESSNA	CONT		TUBE	LEAKING	08/17/2001	
206G	IO550F			FUEL SYSTEM	CA010831006	
AN) NR 5 CYLI	NDER FUEL DIST	RIBUTION TUBE R	UPTURED DURING CRU	UISE FLIGHT. TUBE BREAK IS	AT THE CONNECTION TO	FUEL
				CT. FAILURE OCCURRED AT		
BRAZEDTO TU	JBE ASSY. NO POS	SITIVE CAUSE IDE	NTIFIED. VIBRATION A	ND CYCLES MAY HAVE CON	TRIBUTED TO FAILURE. PO	OSSIBLE
	AZING OF TUBE AS	SSY.				
RRUS			MOUNT	DAMAGED	08/29/2001	144
R20				ENGINE	2001FA0000327	
				O ON 2ND OSC. UPON INSPEC		
				IICH WAS MISSING, WITH TH		
				EVEALED LIND SEED OIL AT		
		AGONAL SUPPORT	Г TUBE, SHOCK MT SUI	PPORT TUBE AND A STIFFEN	ER TUBE A DYE-PIN INSPE	CTION
VEALED A .5			****		0.7/0.0/2004	
ROB	LYC		HOSE	CHAFED	05/09/2001	
15C	O360A1F6	TORE OUT FEED ON		AIR DISTRIBUTION	AUS20010877	00E E0 DIV
,		HOSE CHAFED ON		ARD. HOSEINNER WIRE SHOR		DSE TO BUE
JLSTM	LYC		PLATE	CORRODED	09/21/2001	
OS	IO540E1A5	ODT DI ATE DILCI	DE CORRODED IN ARE	WING, PLATES/SKI	AUS20011017	DOCION IN
		OKI PLATE KH SI	DE CORRODED IN ARE	A OF JOINT BETWEEN TWO F	LATES. EVIDENCE OF COR	KKOSION II
	ON LH SIDE.		CEADDOV	MAVING METAI	00/05/2001	12075
UGHES	ALLSN		GEARBOX	MAKING METAL	09/05/2001 CA010912018	13075 426
UGHES 9D	ALLSN 250C20B	GINE PERFORMA	369D25400B	TAILROTOR	CA010912018	426
UGHES 59D CAN) DURING A	ALLSN 250C20B A HELICOPTER EN		369D25400B NCE CHECK AT 2000 FT	TAIL ROTOR CRUISE, THE TAIL ROTOR G	CA010912018 EARBOX CHIP LIGHT ILLU	426 JMINATED
UGHES 59D CAN) DURING A NDSTAYED LIT	ALLSN 250C20B A HELICOPTER EN I. AFTER LANDIN	G AT BASE, THER	369D25400B NCE CHECK AT 2000 FT E WAS METAL FLAKES	TAIL ROTOR CRUISE, THE TAIL ROTOR G PRESENT ON CHIP DETECTO	CA010912018 EARBOX CHIP LIGHT ILLU PR. T/R GEARBOX WAS FLU	426 JMINATED JSHED, CHI
UGHES 59D (AN) DURING A NDSTAYED LIT ETECTOR CLEA	ALLSN 250C20B A HELICOPTER EN I. AFTER LANDIN ANED, & RE-INSTA	G AT BASE, THER ALLED. AIRCRAFT	369D25400B NCE CHECK AT 2000 FT E WAS METAL FLAKES WAS GROUND RUN FO	TAIL ROTOR CRUISE, THE TAIL ROTOR G PRESENT ON CHIP DETECTO R 10 MIN AND SHUTDOWN.T	CA010912018 EARBOX CHIP LIGHT ILLU PR. T/R GEARBOX WAS FLU	426 JMINATED JSHED, CHIL
UGHES 59D 'AN) DURING A NDSTAYED LIT ETECTOR CLEA EMOVED AGAI	ALLSN 250C20B A HELICOPTER EN I. AFTER LANDIN ANED, & RE-INSTA IN.METAL WAS FO	G AT BASE, THER ALLED. AIRCRAFT	369D25400B NCE CHECK AT 2000 FT E WAS METAL FLAKES WAS GROUND RUN FO OR - T/R GEARBOX REM	TAIL ROTOR CRUISE, THE TAIL ROTOR G PRESENT ON CHIP DETECTO R 10 MIN AND SHUTDOWN.T OVED FROM AIRCRAFT.	CA010912018 EARBOX CHIP LIGHT ILLU PR. T/R GEARBOX WAS FLU T/R GEARBOX CHIP DETEC	426 JMINATED JSHED, CHI TOR
UGHES (9D (AN) DURING A NDSTAYED LIT ETECTOR CLEA EMOVED AGAI UGHES	ALLSN 250C20B A HELICOPTER EN I. AFTER LANDIN ANED, & RE-INSTA	G AT BASE, THER ALLED. AIRCRAFT	369D25400B NCE CHECK AT 2000 FT E WAS METAL FLAKES WAS GROUND RUN FO	TAIL ROTOR CRUISE, THE TAIL ROTOR G PRESENT ON CHIP DETECTO R 10 MIN AND SHUTDOWN.T	CA010912018 EARBOX CHIP LIGHT ILLU PR. T/R GEARBOX WAS FLU	426 JMINATED JSHED, CHI
UGHES 9D AN) DURING A NDSTAYED LITE ETECTOR CLEA EMOVED AGAI UGHES 9FF	ALLSN 250C20B A HELICOPTER EN F. AFTER LANDIN ANED, & RE-INSTA IN.METAL WAS FO ALLSN 250C30	G AT BASE, THER! ALLED. AIRCRAFT DUND ON DETECT	369D25400B NCE CHECK AT 2000 FT E WAS METAL FLAKES 'WAS GROUND RUN FO OR - T/R GEARBOX REN BOLT NAS620425	TAIL ROTOR CRUISE, THE TAIL ROTOR G PRESENT ON CHIP DETECTO R 10 MIN AND SHUTDOWN.T IOVED FROM AIRCRAFT. BROKEN T/R GEARBOX	CA010912018 EEARBOX CHIP LIGHT ILLU IR. T/R GEARBOX WAS FLU F/R GEARBOX CHIP DETEC 07/26/2000 CA010921004	426 JMINATED JSHED, CHI TOR 1200
UGHES 69D NOSTAYED LIT ETECTOR CLEA EMOVED AGAI UGHES 69FF (AN) - TAILROT	ALLSN 250C20B A HELICOPTER EN F. AFTER LANDIN' ANED, & RE-INSTA' IN.METAL WAS FO ALLSN 250C30 FOR GEARBOX RE	G AT BASE, THER: ALLED. AIRCRAFT DUND ON DETECTO ETENTION HARDW	369D25400B NCE CHECK AT 2000 FT E WAS METAL FLAKES WAS GROUND RUN FC OR - T/R GEARBOX REN BOLT NAS620425 /ARE, BOLT HEAD FOU	TAIL ROTOR 'CRUISE, THE TAIL ROTOR G PRESENT ON CHIP DETECTO OR 10 MIN AND SHUTDOWN.'I OVED FROM AIRCRAFT. BROKEN	CA010912018 EEARBOX CHIP LIGHT ILLU DR. T/R GEARBOX WAS FLU F/R GEARBOX CHIP DETEC 07/26/2000 CA010921004 DULED MAINTENANCE 3 1	426 JMINATED JSHED, CHI TOR 1200 REMAINING
UGHES 59D CAN) DURING A NDSTAYED LIT ETECTOR CLEA EMOVED AGAI UGHES 59FF CAN) - TAILROT OLTSWERE INS	ALLSN 250C20B A HELICOPTER EN F. AFTER LANDINA ANED, & RE-INSTA IN.METAL WAS FO ALLSN 250C30 FOR GEARBOX RE SPECTED WITH NO	G AT BASE, THER: ALLED. AIRCRAFT DUND ON DETECTO ETENTION HARDW	369D25400B NCE CHECK AT 2000 FT E WAS METAL FLAKES C WAS GROUND RUN FO OR - T/R GEARBOX REM BOLT NAS620425 VARE, BOLT HEAD FOU ID. ALL THE TAILROTO	TAIL ROTOR CRUISE, THE TAIL ROTOR G PRESENT ON CHIP DETECTO OR 10 MIN AND SHUTDOWN.T IOVED FROM AIRCRAFT. BROKEN T/R GEARBOX ND MISSING DURING SCHED	CA010912018 EEARBOX CHIP LIGHT ILLU DR. T/R GEARBOX WAS FLU F/R GEARBOX CHIP DETEC 07/26/2000 CA010921004 DULED MAINTENANCE 3 1	426 UMINATED USHED, CHIL TOR 1200 REMAINING
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JGHES 9D AN) DURING A NDSTAYED LIT ETECTOR CLEA EMOVED AGAI JGHES 9FF AN) - TAILROT DUTSWERE INS 0 HOURRETIRI	ALLSN 250C20B A HELICOPTER EN F. AFTER LANDINA ANED, & RE-INSTA IN.METAL WAS FO ALLSN 250C30 FOR GEARBOX RE SPECTED WITH NO EMENT SCHEDUL	G AT BASE, THERI ALLED. AIRCRAFI DUND ON DETECTO ETENTION HARDW O FAILURES FOUN E HAS BEEN ESTA	369D25400B NCE CHECK AT 2000 FT E WAS METAL FLAKES T WAS GROUND RUN FO OR - T/R GEARBOX REM BOLT NAS620425 VARE, BOLT HEAD FOU ID. ALL THE TAILROTO ABLISHED FOR	TAIL ROTOR CRUISE, THE TAIL ROTOR G PRESENT ON CHIP DETECTO IN 10 MIN AND SHUTDOWN.T MOVED FROM AIRCRAFT. BROKEN T/R GEARBOX ND MISSING DURING SCHED IN GEARBOX RETENTION HA	CA010912018 EEARBOX CHIP LIGHT ILLU R. T/R GEARBOX WAS FLU V/R GEARBOX CHIP DETEC 07/26/2000 CA010921004 OULED MAINTENANCE 3 I RDWARE WAS REPLACED	426 JMINATED JSHED, CHI TOR 1200 REMAINING
JGHES 9D AN) DURING A NDSTAYED LI ETECTOR CLEA EMOVED AGAI JGHES 9FF AN) - TAILROT OHOURRETIRI EAR LEAR	ALLSN 250C20B A HELICOPTER EN T. AFTER LANDIN ANED, & RE-INSTA IN.METAL WAS FO ALLSN 250C30 FOR GEARBOX RE SPECTED WITH NO EMENT SCHEDUL GARRITT TFE73122B	G AT BASE, THER! ALLED. AIRCRAFI DUND ON DETECTO ETENTION HARDW O FAILURES FOUN LE HAS BEEN ESTA KIDDE 896H16	369D25400B NCE CHECK AT 2000 FT E WAS METAL FLAKES C WAS GROUND RUN FO OR - T/R GEARBOX REM BOLT NAS620425 VARE, BOLT HEAD FOU D. ALL THE TAILROTO ABLISHED FOR BONDING MS250832DE5	TAIL ROTOR CRUISE, THE TAIL ROTOR G PRESENT ON CHIP DETECTO OR 10 MIN AND SHUTDOWN.T IOVED FROM AIRCRAFT. BROKEN T/R GEARBOX ND MISSING DURING SCHED OR GEARBOX RETENTION HA	CA010912018 EEARBOX CHIP LIGHT ILLU ER. T/R GEARBOX WAS FLU E/R GEARBOX CHIP DETEC 07/26/2000 CA010921004 EULED MAINTENANCE 3 I ERDWARE WAS REPLACED 09/07/2001 CA010914007	426 JMINATED JSHED, CHI TOR 1200 REMAINING WITH NEW
JGHES 9D AN) DURING A NDSTAYED LEA EMOVED AGAI JGHES 9FF AN) - TAILROT LTSWERE INS 0 HOURRETIRI KAR LEAR AN) DUING CR	ALLSN 250C20B A HELICOPTER EN T. AFTER LANDIN ANED, & RE-INSTA IN.METAL WAS FO ALLSN 250C30 FOR GEARBOX RE SPECTED WITH NO EMENT SCHEDUL GARRITT TFE73122B RUISE PILOTS NOT	G AT BASE, THERI ALLED. AIRCRAFI UND ON DETECTO ETENTION HARDW D FAILURES FOUN LE HAS BEEN ESTA KIDDE 896H16 TICED RT ENGINE	369D25400B NCE CHECK AT 2000 FT E WAS METAL FLAKES WAS GROUND RUN FO OR - T/R GEARBOX REM BOLT NAS620425 /ARE, BOLT HEAD FOU ID. ALL THE TAILROTO ABLISHED FOR BONDING MS250832DE5 FIRE INDICTION, FIREI	TAIL ROTOR CRUISE, THE TAIL ROTOR G PRESENT ON CHIP DETECTO OR 10 MIN AND SHUTDOWN.T MOVED FROM AIRCRAFT. BROKEN T/R GEARBOX ND MISSING DURING SCHED OR GEARBOX RETENTION HA FAILED OTBD CONNECTOR	CA010912018 EEARBOX CHIP LIGHT ILLU IR. T/R GEARBOX WAS FLU F/R GEARBOX CHIP DETEC 07/26/2000 CA010921004 IULED MAINTENANCE 3 1 IRDWARE WAS REPLACED 09/07/2001 CA010914007 MERGENCY LANDING IN JI	426 UMINATED USHED, CHI TOR 1200 REMAINING WITH NEW
JGHES 9D AN) DURING A NDSTAYED LIT ETECTOR CLEA EMOVED AGAI JGHES 9FF AN) - TAILROT DLTSWERE INS 0 HOURRETIRI EAR LEAR AN) DUING CR TER VISUAL I DUND TO BE IN	ALLSN 250C20B A HELICOPTER EN T. AFTER LANDIN ANED, & RE-INSTA IN.METAL WAS FO ALLSN 250C30 FOR GEARBOX RE SPECTED WITH NO EMENT SCHEDUL GARRIT TFE73122B RUISE PILOTS NOT NSPECTION OF RE	G AT BASE, THERI ALLED. AIRCRAFI DUND ON DETECTO ETENTION HARDW D FAILURES FOUN E HAS BEEN ESTA KIDDE 896H16 TICED RT ENGINE FENGINE FIRE DE	369D25400B NCE CHECK AT 2000 FT E WAS METAL FLAKES WAS GROUND RUN FC OR - T/R GEARBOX REM BOLT NAS620425 /ARE, BOLT HEAD FOU ID. ALL THE TAILROTO ABLISHED FOR BONDING MS250832DE5 FIRE INDICTION, FIREL TECTION SYSTEM, THE	TAIL ROTOR CRUISE, THE TAIL ROTOR G PRESENT ON CHIP DETECTO R 10 MIN AND SHUTDOWN.T MOVED FROM AIRCRAFT. BROKEN T/R GEARBOX ND MISSING DURING SCHED OR GEARBOX RETENTION HA FAILED OTBD CONNECTOR D BOTH BOTTLES AND DID EI	CA010912018 EEARBOX CHIP LIGHT ILLU IR. T/R GEARBOX WAS FLU I/R GEARBOX CHIP DETEC 07/26/2000 CA010921004 IULED MAINTENANCE 3 1 IRDWARE WAS REPLACED 09/07/2001 CA010914007 MERGENCY LANDING IN JI N THE GEARBOX FIRE LOC	426 JMINATED JSHED, CHI TOR 1200 REMAINING WITH NEW FK AIRPOR DP WAS
JGHES 9D AN) DURING A NDSTAYED LIT ETECTOR CLEA MOVED AGAI JGHES 9FF AN) - TAILROT DLTSWERE INS 0 HOURRETIRE EAR AN) DUING CR TTER VISUAL I JUND TO BE IN -30	ALLSN 250C20B A HELICOPTER EN T. AFTER LANDIN ANED, & RE-INSTA IN.METAL WAS FO ALLSN 250C30 FOR GEARBOX RE SPECTED WITH NO EMENT SCHEDUL GARRIT TFE73122B RUISE PILOTS NOT NSPECTION OF RE	G AT BASE, THERI ALLED. AIRCRAFI DUND ON DETECTO ETENTION HARDW O FAILURES FOUN E HAS BEEN ESTA KIDDE 896H16 TICED RT ENGINE I ENGINE FIRE DE ETOR RE-SECUREI	369D25400B NCE CHECK AT 2000 FT E WAS METAL FLAKES C WAS GROUND RUN FO OR - T/R GEARBOX REM BOLT NAS620425 VARE, BOLT HEAD FOU ID. ALL THE TAILROTO ABLISHED FOR BONDING MS250832DE5 FIRE INDICTION, FIREL TECTION SYSTEM, THE	TAIL ROTOR CRUISE, THE TAIL ROTOR G PRESENT ON CHIP DETECTO OR 10 MIN AND SHUTDOWN.1 MOVED FROM AIRCRAFT. BROKEN T'/R GEARBOX ND MISSING DURING SCHED OR GEARBOX RETENTION HA FAILED OTBD CONNECTOR D BOTH BOTTLES AND DID ET E OUTBOARD CONNECTOR ON SYSTEM FUNCTION CHECK	CA010912018 EEARBOX CHIP LIGHT ILLU IR. T/R GEARBOX WAS FLU I/R GEARBOX CHIP DETEC 07/26/2000 CA010921004 IULED MAINTENANCE 3 1 IRDWARE WAS REPLACED 09/07/2001 CA010914007 MERGENCY LANDING IN JI N THE GEARBOX FIRE LOC	426 JMINATED JSHED, CHI TOR 1200 REMAINING WITH NEW FK AIRPOR' JP WAS R 35/36 IPC
JGHES 9D AN) DURING A NDSTAYED LIT ETECTOR CLEA MOVED AGAI JGHES 9FF AN) - TAILROT OHOURRETIRE EAR AN) DUING CR FTER VISUAL I DUND TO BE IN -30 EAR	ALLSN 250C20B A HELICOPTER EN T. AFTER LANDIN ANED, & RE-INST/ IN.METAL WAS FO ALLSN 250C30 FOR GEARBOX RE SPECTED WITH NO EMENT SCHEDUL GARRIT TFE73122B RUISE PILOTS NOT INSPECTION OF R' I LOOSE. CONNEC	G AT BASE, THERI ALLED. AIRCRAFI DUND ON DETECTO ETENTION HARDW D FAILURES FOUN E HAS BEEN ESTA KIDDE 896H16 TICED RT ENGINE FENGINE FIRE DE	369D25400B NCE CHECK AT 2000 FT E WAS METAL FLAKES WAS GROUND RUN FC OR - T/R GEARBOX REM BOLT NAS620425 /ARE, BOLT HEAD FOU ID. ALL THE TAILROTO ABLISHED FOR BONDING MS250832DE5 FIRE INDICTION, FIREL TECTION SYSTEM, THE	TAIL ROTOR CRUISE, THE TAIL ROTOR G PRESENT ON CHIP DETECTO PRESENT ON CHIP DETECTO TO 10 MIN AND SHUTDOWN.T MOVED FROM AIRCRAFT. BROKEN T/R GEARBOX ND MISSING DURING SCHED OR GEARBOX RETENTION HA FAILED OTBD CONNECTOR D BOTH BOTTLES AND DID ER E OUTBOARD CONNECTOR O N SYSTEM FUNCTION CHECK FAILED	CA010912018 GEARBOX CHIP LIGHT ILLU GR. T/R GEARBOX WAS FLU G/R GEARBOX CHIP DETEC 07/26/2000 CA010921004 GULED MAINTENANCE 3 I GROWARE WAS REPLACED 09/07/2001 CA010914007 MERGENCY LANDING IN JI N THE GEARBOX FIRE LOC C C/O, NO FAULT.REF: LEAI 07/27/2001	426 JMINATED JSHED, CHI TOR 1200 REMAINING WITH NEW FK AIRPOR DP WAS
JGHES 9D AN) DURING A NDSTAYED LA TTECTOR CLEA MOVED AGAI JGHES 9FF AN) - TAILROT DLTSWERE INS 0 HOURRETIRI AR LEAR AN) DUING CR TER VISUAL I DUND TO BE IN -30 AR LEAR	ALLSN 250C20B A HELICOPTER EN T. AFTER LANDIN ANED, & RE-INSTA IN.METAL WAS FO ALLSN 250C30 FOR GEARBOX RE SPECTED WITH NO EMENT SCHEDUL GARRIT TFE73122B RUISE PILOTS NOT NSPECTION OF R' N LOOSE. CONNEC GARRIT TFE731*	G AT BASE, THERI ALLED. AIRCRAFI UND ON DETECTO ETENTION HARDW D FAILURES FOUN LE HAS BEEN ESTA KIDDE 896H16 TICED RT ENGINE I ENGINE FIRE DE TOR RE-SECUREI LUCAS	369D25400B NCE CHECK AT 2000 FT E WAS METAL FLAKES WAS GROUND RUN FO OR - T/R GEARBOX REM BOLT NAS620425 /ARE, BOLT HEAD FOU ABLISHED FOR BONDING MS250832DE5 FIRE INDICTION, FIREE TECTION SYSTEM, THE D AND FIRE DETECTION BEARING	TAIL ROTOR CRUISE, THE TAIL ROTOR G PRESENT ON CHIP DETECTO OR 10 MIN AND SHUTDOWN.T MOVED FROM AIRCRAFT. BROKEN T/R GEARBOX ND MISSING DURING SCHED OR GEARBOX RETENTION HA FAILED OTBD CONNECTOR D BOTH BOTTLES AND DID ER OUTBOARD CONNECTOR ON N SYSTEM FUNCTION CHECK FAILED STARTER GEN	CA010912018 EEARBOX CHIP LIGHT ILLU IR. T/R GEARBOX WAS FLU IV/R GEARBOX CHIP DETEC 07/26/2000 CA010921004 EULED MAINTENANCE 3 I RDWARE WAS REPLACED 09/07/2001 CA010914007 MERGENCY LANDING IN JI N THE GEARBOX FIRE LOC CC/O, NO FAULT.REF: LEAI 07/27/2001 2001FA0000348	426 UMINATED USHED, CHI TOR 1200 REMAINING WITH NEW FK AIRPOR' DP WAS R 35/36 IPC 679
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PIPER	LYC		BOLT	BROKEN	08/06/2001	9000
PA23250	IO540*		PA402427	DRAGLINK	2001FA0000331	
BOLT SHEAREI PIPER	IN HALF, ALLOW LYC	VING RIGHT MAIN LAI	NDING GEAR TO COLL INDICATOR	APSE ON LANDING ROLL. BOL FAILED	T SUSPECTED TO BE 0 06/26/2001	ORIGINAL.
PA23250	IO540C4B5		INDICATOR	MLG	CA010817003	
		WHEEL LIGHT DID NOT	COME ON. AFTER VE	RIFICATION WITH THE MIRABI		IRMED 3
				G GEAR DOWN. THE LIGHT CAN		
			AND THE GROUND W	VAS CLEANED FOLLOWED BY M	MANY RETRACTIONS	AND THE
PIPER	HECKED SERVICE LYC	EABLE. CLEVELAND	DISK	WORN	07/16/2001	
PA23250	IO540K1A5	16405700	16405700	BRAKE	AUS20010869	
			SS. BOTH DISCS ALSO	EXHIBITED EVIDENCE OF RAD	DIAL HEAT STRESS CR.	ACKING.
PIPER			TAPE	LOOSE	08/20/2001	
PA28140	INED OF POLICE	DUNNING ENGINE I O	W STATIC DDM ONI V	CARB SHROUD OBTAINABLE BY LEANING MIX	2001FA0000366	OV 1 SOULABE
				OUD ON EXHAUST PIPE RUB AI		
				SLODGE AND MAKE ITS WAY T		
PIPER	LYC		EXHAUST	FAILED	06/25/2001	1147
PA28181	O360A4M	CDINCE THE DILOT C	TATED THAT IT CTAD	ENGINE	2001FA0000368	INC AT A
				TED TO LOSS POWER AND RAN THE CYLINDER, THE TOP OF TH		
				VALVE HAD BEEN FOUND IN T		
	UNKNOWN. TOTA	AL TIME ON THE				
PIPER	LYC		CONTROL UNIT	LOOSE	05/15/2001	
PA31350	TIO540J2BD	EM HAD EYCESSIVE DI	AV INVESTIGATION	AILERON FOUNDUNIVERSAL PNO 46203-	AUS20010903	V THROUGH
(ACKET PNO 29197-02 N			02 WORN COMPLETED	ZI IIIKUUUN
PIPER		DYNAMICAIR	ARMATURE	WRONG PART	08/15/2001	
PA31P350			313B57	FAN	2001FA0000344	
				D FOUND TO HAVE AN ARMAT		
				HE ARMATURE TO RUST. THE VISS WAS COMPENSATED BY SOI		
				O AN IN ACCURATE BRUSH LOA		O THE
PIPER	PWA	CLEVELAND	BOLT	CRACKED	07/20/2001	795
PA31T	PT6A28	40106	10320400	WHEEL	CA010813014	795
				IN WHEEL P/N 40-106 WAS MISS TWO AND PROTRUDING FORW		
				ISIDERABLE DAMAGE TO THE		
PIPER	LYC	CONT	GEAR	BROKEN	08/29/2001	775 12000).
PA32300	IO540K1G5	BL3493704	10349234	MAGNETO/DISTRIB	AUS20010986	727
				ETAINING WEDGES PNO 10-349		
		NO 10-349234 WAS FOU E INTERNAL TIMING T		TEETHMISSING. SUSPECT WED	GE JAMMED GEAR CA	USING
PIPER	I AND ALLOW III	E IIVIEKIVAL IIIVIIIVO I	CABLE	BROKEN	06/26/2001	
PA32301T			62701008	SWAGED END	2001FA0000298	
				CKLE THREADED SWAGED ENI		
THAT SCREWS	NTO TURNBUCKL PWA	LE BARREL. SAFETY W	OUTFLOW	G THAT PREVENTED COMPLETE DIRTY	07/26/2001	NTROL.
PA42	PT6A41		1036383	CABIN PRESSURE	CA010809018	310
		ABIN LOST PRESSURE		SCENT WAS CARRIED OUT AND		
				E LOOSE AND DIRTY. THE VAL	VE WAS CLEANED & T	IGHTENED,
	ACTORY TEST FLIG	GHT WAS CARRIED OU		PROVEN	0.7.12.5.12.0.0.1	
PIPER PA44180			WIRE	BROKEN MLG	07/26/2001 CA010820012	
	Γ SELECTED GEAF	R DOWN ON APPROAC	H "GEAR WARNING"	CCT BREAKER TRIPPED&UNSA		LUMINATE
, ,				INDICATING GEAR DOWN&LO		
				D OUT OF SWITCH BODY. DOW		
				S WERE SHORTING OUT&WHE EG.&IF SWITCH IS INST W/O AN		
				SWITCH INST WITH ENOUGH SI		IEI CAN BE
ROBSIN	LYC	LYC	V-BELT	TORN	09/21/2001	
R22	O320B2C		A1902	FRONT ENGINE	CA011003004	
, ,				AT THE BELTS WERE DRY AND	CAUSED SMALL CRA	CKS IN
THERUBBER W ROBSIN	HEKE THE BELTS	ARE RIDING ON THE S	HEAVE. ACTUATOR	DEFECTIVE	08/31/2001	76
R44			D2761	CLUTCH	IVSA075461 MOTOR	
OPERATE WHE			ELTS. WOULD NOT O	PERATE IN EITHER DIRECTION.		
		FOR WARRANTY CRE			00/04/5555	
ROBSIN R44	LYC O540F1B5	ROBSIN C0148	CROSSTUBE C2411	CHAFED MLG	08/01/2001 CA010810006	1355
				BY THE WIRES OF THE SEAT H		ED TO THE
				IGHT FIT TO THE MUFFLER & I		
				HE SHROUD TO ROTATE UNTIL		
		OSS TUBE. AFT CROSS S		PWA		FUEL
TANK	CONTAMINATE	ED 11/22/2000	700	EUSEL ACE	2001EA0000221	
G164B WATER ACCUM	R985* IULATING IN FUE	L TANKS WITH NO OU	ICK DRAINS TT 700 TO	FUSELAGE O 900 HOURS PLUS CORROSION	2001FA0000321	
SKRSKY	ICLATING IN PUE	L TUTUD WITHING ON	SERVO	FLUCTUATES	. 07/18/2001	
S61N			BH185R154		ERAA074826	
INSTALLED ON	A/C AND HAD TO	REMOVE DUE TO GA	UGE FLUCTUATING. F	RETURNING ON ERA REPAIR OF	RDER # RW -885179 RE	QUESTING
WARRANTY RE						

SKRSKY VALVE MALFUNCTIONED 09/24/2001 650852201 HEEA075931 S76A NR 1 ENGINE WHEN ATTEMPTING TO DEPART, A LARGE TOROUE SPLIT OCCURRED WHEN ATTEMPTING TO PICK UP INTO A HOVER, INSPECTION OF NR 1 ENGINE BY PILOT REVEALED THE PC SAFETY VALVE PARTIALLY CLOSED. PILOT OPENED VALVE AND COMPLIED WITH POWER CHECK AND FOUNDNORMAL. MAINTENANCE INSPECTED VALVE AND ENGINE. RELEASED AIRCRAFT FOR SERVICE. INTERMITTENT MODULE 10/12/2001 7665009803105 S76A 350A33200406 ROTOR BRAKE HEEA076278 ROTOR BRAKE WARNING LIGHT INTERMITTENTLY DOES NOT ILLUMINATE WITH ROTOR BRAKE ENGAGED. REPLACED WITH SERVICEABLE PART. SKRSKY LINK WRONG PART 08/26/2001 S76A MAIN ROTOR CA010907001 (CAN) DURING A MAIN GEARBOX BUILDUP AND PRIOR TO INSTALLATION OF THE STATIONARY SCISSORS ASSEMBLY, THE ENGINEER NOTICEDTHE UPPER LINK OF STATIONARY SCISSORS WAS ASSEMBLED 180 DEGREES OUT OF POSITION. THE ENGINEER CORRECTED THIS CONDITION PRIOR TO INSTALLING THE SCISSORS ASSEMBLY ON THE MAIN GEARBOX, UNCORRECTED, THIS WOULD LIMIT THE VERTICALMOVEMENT (DOWN)OF THE SWASHPLATE. SKRSKY ALLSN SKRSKY COUPLER CRACKED 08/27/2001 250C30S 763610520104 76361040078101 TAIL ROTOR CA010828021 S76A (CAN) DURING INSP OF TAIL ROTOR DRIVESHAFT ASSY IT NOTED THAT FLEX COUPLING BETWEEN INTERMEDIATE GEARBOX & NR 5 TAIL ROTOR DRIVESHAFT HAD CRACKED LAMINATE, COUPLING REMOVED & INSP. IT HAD ONE CRACKED LAMINATE (OUTTER LAMINATE OF PACK) & CRACK LOCATED BETWEEN 2 OF FLANGE ATTACHEMNT BOLT HOLES. CRACK RUNS COMPLETLELY THROUGH LAMINATE IN STRAIGHT LINE FROM OUTTER EDGE TO INNER EDGE. IS NO APPARENT SURFACE DEFECT THAT WOULD APPEAR SURFACE DEFECT THAT WOULD APPEAR TO BE CAUSE IF CRACK, PART HAS BEEN SENT TO SIKORSKY A/C PRODUCT SAFETY DEPARTMENT FOR EVALUATION. SIKORSKY A/C FIELD SERVICE REPRESENTATIVE STATED THAT HAS BEEN PREVIOUS CASES OF THESE COUPLINGS CRACKING. SOCATA PW A CARRIAGE WORN 08/30/2001 TBM700 PT6* T700A575506000 LEFT FLAB IB 2001FA0000318 AFTER REMOVAL OF LEFT FLAP, DISCOVERED LEFT INBOARD CARRIAGE, PART LISTED ABOVE AND ACTUATOR NUT COVER, PN T700A2750029000, WORN FROM CONTACT WITH ACTUATOR NUT. WEAR APPEARS TO BE FROM WORN BUSHINGS IN CARRIAGE AND ACTUATOR NUT COVER AS WELL AS WEAR IN LOCATOR PINS IN ACTUATOR NUT. FOUND SAME WEAR IN RIGHT INBOARD FLAP CARRIAGE, PN T700A5755060001 AND ACTUATOR NUT COVER COVER PN T700A2755063000 AND ACTUATOR NUT COVER PN T700A2750029000. ZLIN BENT 09/10/2001 LYC BOLT Z242L AEIO360A1B6 Z4243430000 ONL312014 FLAP BELLCRANK CA010914004 (CAN) DURING A 100/500 HOUR INSPECTION THE LT FLAP BELLCRANK BOLT (P/N ONL3120.146X77)WAS FOUND TO BE BENT. THE BOLT WAS REPLACED WITH A NEW ONE. IT IS SUSPECTED THAT A STUDENT PILOT EXTENDED THE FLAPS ABOVE THE MAXIMUM SPEED ALLOWED FOR FLAP EXTENSION. THE MAINTENANCE SCHEDULE ALREADY HAS AN ADDITIONAL INSPECTION ON THE FLAP BOLTS AND THE INSTRUCTORS AND STUDENTS WERE AGAIN REMINDED OF THE PROPER PROCEDURE USING THE FLAPS.

OMB No. 2120-0003

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